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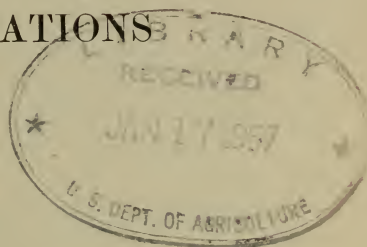
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U. S. DEPARTMENT OF AGRICULTURE.  
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LIST OF PUBLICATIONS

OF THE



U. S. DEPARTMENT OF AGRICULTURE

FROM

1841 TO JUNE 30, 1895, INCLUSIVE.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1896.

#### ABBREVIATIONS.

n. d.	no date.
pls	plates.
pp	pages.
cl	cloth.
ed	editor.
S.	Senate.
H	House.
n. t. p.	no title-page.

Unless otherwise stated, publications are octavo in form, and bound in paper.



CONTENTS.Bulletins.

No. 9. List of Publications of the Department, 1841-1895.	Pp. 76.
No. 17. Accessions to Department Library, April-June, 1897.	Pp. 26.
No. 18. A Bibliography of Poultry.	Pp. 32
No. 19. Accessions to Department Library July-September, 1897.	Pp. 25
No. 20. List of Publications on Mush- rooms.	Pp. 16.
No. 21. Accessions to Department Library October-December, 1897.	Pp. 23.
No. 22. Accessions to Department Library, January-March, 1898.	Pp. 38.
No. 23. Accessions to Department Library, April-June, 1898.	Pp. 25.
No. 24. List of Publications Re- lating to Forestry in Department Library.	Pp. 93.
No. 25. Accessions to Department Library, July-September, 1898.	Pp. 16.

Extracts from Yearbooks.

1895: A Pioneer in Agricultural Science.	Pp. 10.
1897: The Library.	Pp. 8.



## LETTER OF TRANSMITTAL.

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U. S. DEPARTMENT OF AGRICULTURE, LIBRARY,  
*Washington, D. C., August 20, 1895.*

SIR: I have the honor to transmit herewith, for publication as a bulletin of this division, a list of the publications of the United States Department of Agriculture from 1841 to June 30, 1895, prepared by Miss Adelaide R. Hasse while assistant librarian in the Los Angeles (Cal.) Public Library. The necessity for such a list has long been recognized, but the pressure of other duties has deterred the completion of a catalogue of the Department publications begun several years ago. The accompanying list will be valuable to librarians, students of agriculture, and other persons interested in the work of the Department, as it shows the extent and character of its operations from its inception to the present time, although the editions of the earlier publications and of many of those more recent are exhausted, and complete sets or missing numbers can not be supplied.

Very respectfully,

W. P. CUTTER,  
*Librarian.*

Hon. J. STERLING MORTON,  
*Secretary.*



## COMPILER'S PREFACE.

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This list is intended solely as a check list for the use of librarians and others handling the publications of the United States Department of Agriculture; it is not expected that it will take the place of either an index or a catalogue. In spite of the endeavor to have the list a complete one, there are omissions and imperfections, which, however, it is hoped, will not be so serious as to affect its general utility.

The classification and notation are the result of practical experience and are offered merely as a suggestion to librarians who keep their files of Government publications apart from their general collection of books. Such a notation may be applied to the publications of every Department, provided they are systematically classified after the system of the publications of this Department.

ADELAIDE R. HASSE.

WASHINGTON, D. C., *August 17, 1895.*



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# LIST OF PUBLICATIONS.

## OFFICE OF THE SECRETARY.

### ANNUAL REPORTS.

[The Department of Agriculture was established as a section of the Patent Office, by an appropriation for the collection of agricultural statistics, March 3, 1839; it became a separate Department May 15, 1862, was raised to the dignity of a Cabinet office February 9, 1889, and Norman J. Colman was appointed Secretary of Agriculture.]

Report of Commissioner of Patents, showing the operations during the year 1841. (Henry L. Ellsworth.) AG. 2 : 841  
25 pp.

Includes a table of agricultural statistics as estimated for 1841, and remarks on agricultural statistics. Pp. 7-25. Also in 29 Cong., 2d sess., S. doc. No. 169.

*Same*, 1842. Cl. 1843. 173 pp. .... AG. 2 : 842

Includes a tabular estimate of the crops for 1842, and agricultural statistics. Pp. 5-110. Index. Also in 27 Cong., 3d sess., H. and S. doc., v. 3.

*Same*, 1843. Cl. 1844. 335 pp. .... AG. 2 : 843

Includes a tabular estimate of the crops for 1843, and statistical notes. Pp. 12-335. Index. Also in 28 Cong., 1st sess., S. doc., v. 3, and H. doc., v. 4.

*Same*, 1844. Cl. 1845. 520 pp. .... AG. 2 : 844

Includes a tabular estimate of the crops for 1844, statistical notes on agriculture, and miscellaneous essays and extracts from agricultural papers in appendixes Nos. 1-44. Pp. 11-437. Also in 28 Cong., 2d sess., H. and S. doc., v. 3.

*Same*, 1845. (Edmund Burke.) Cl. 1846. 1184 pp. .... AG. 2 : 845

Includes a tabular estimate of crops for 1845, statistical notes, and miscellaneous essays and extracts from agricultural papers in appendixes Nos. 1-40. Index. Pp. 90-1184. Also in 29 Cong., 1st sess., S. doc., v. 6; H. doc., v. 5.

*Same*, 1846.

In 1846 the Commissioner of Patents failed to make an annual report on agriculture, Congress having declined to make an appropriation for this purpose. (See his report for 1847, p. 11.)

*Same*, 1847. Cl. 1848. 661 pp., viii pls. .... AG. 2 : 847

Tabular estimate of crops for 1847, and a series of 20 miscellaneous appendixes on agricultural matters. Index. Pp. 84-661. Also in 30 Cong., 1st sess., H. ex. doc., v. 6.

*Same*, 1848. Cl. 1849. 816 pp., 69 figs. .... AG. 2 : 848

Tabular estimate of crops for 1849, and 11 appendixes. Index. Pp. 92-816. Also in 30 Cong., 2d sess., H. ex. doc., v. 6.

- Report of Commissioner of Patents, showing the operations during the year 1849. (Thomas Ewbank.) Pt. 2. Agriculture. Cl. 1850. 574 pp. vii pls. AG. 2 : 849  
 Also in 31 Cong., 1st sess., S. ex. doc., v. 8; H. ex. doc., v. 6, pt. 2.
- Same*, 1850. Pt. 2. Agriculture. Cl. 1851. 579 pp... AG. 2 : 850  
 Also in 31 Cong., 2d sess., H. ex. doc., v. 6, pt. 2.
- Same*, 1851. Pt. 2. Agriculture. Cl. 1852. 676 pp... AG. 2 : 851  
 Also in 32 Cong., 1st sess., H. doc., v. 10, and S. doc., v. 13.
- Same*, 1852. (Silas H. Hodges.) Pt. 2. Agriculture. Cl. 1853. 448 pp. AG. 2 : 852  
 Also in 32 Cong., 2d sess., H. and S. doc., v. 9.
- Same*, 1853. (Charles Mason.) Pt. 2. Agriculture. Cl. 1854. 418 pp., 4 col. pls. Index. AG. 2 : 853  
 Also in 33 Cong., 1st sess., H. and S. doc., v. 7.
- Same*, 1854. Agriculture. Cl. 1855. 520 pp., vii pls. Index. AG. 2 : 854  
 Also in 33 Cong., 2d sess., H. doc., v. 7, and S. doc., v. 10.
- Same*, 1855. Agriculture. Cl. 1856. 488 pp., xi pls. Index. AG. 2 : 855  
 Also in 34 Cong., 1st sess., H. doc., v. 6, and S. doc., v. 9.
- Same*, 1856. Agriculture. Cl. 1857. 536 pp., 40 pls... AG. 2 : 856  
 Also in 34 Cong., 3d sess., H. doc., v. 8, and S. doc., v. 12.
- Same*, 1857. (J. Holt.) Agriculture. Cl. 1858. 551 pp., vii pls. Index. AG. 2 : 857  
 Also in 35 Cong., 1st sess., H. doc., v. 8, and S. doc., v. 11.
- Same*, 1858. Agriculture. Cl. 1859. 552 pp., viii pls. Index. AG. 2 : 858  
 Also in 35 Cong., 2d sess., H. doc., v. 10, and S. doc., v. 14.
- Same*, 1859. (William D. Bishop.) Agriculture. Cl. 1860. 590 pp., vi figs. Index. AG. 2 : 859  
 Also in 36 Cong., 1st sess., S. doc., v. 6.
- Same*, 1860. (S. T. Shugert, Acting Commissioner.) Agriculture. Cl. 1861. 504 pp. 1 pl. Index. AG. 2 : 860  
 Also in 36 Cong., 2d sess., H. doc., v. 8.
- Same*, 1861. (D. P. Holloway.) Agriculture. Cl. 1862. 656 pp. Index. AG. 2 : 861  
 Also in 37 Cong., 2d sess., H. doc., v. 5, and S. doc. No. 39.
- Report of Commissioner of Agriculture, 1862. (Isaac Newton.) Cl. 1863. 632 pp. Index. AG. 2 : 862  
 Also in 37 Cong., 3d sess., H. doc., v. 11.
- Same*, 1863. Cl. 1863. 698 pp. Index..... AG. 2 : 863  
 Also in 38 Cong., 1st sess., H. doc., v. 16.
- Same*, 1864. Cl. 1865. 676 pp. Index..... AG. 2 : 864  
 Also in 38 Cong., 2d sess., H. doc., v. 12.
- Same*, 1865. Cl. 1866. 608 pp. Index..... AG. 2 : 865  
 Also in 39 Cong., 1st sess., H. doc., v. 15.
- Same*, 1866. Cl. 1867. 656 pp. Index..... AG. 2 : 866  
 Also in 39 Cong., 2d sess., H. doc., v. 15.

Report of Commissioner of Agriculture, 1867. (John W. Stokes, Acting Commissioner.) Cl. 1868. 512 pp. AG. 2 : 867  
Index.

Also in 40 Cong., 2d sess., H. doc., v. 21.

Contains author, title, and subject index for reports of agriculture from 1847 to 1866, inclusive.

*Same*, 1868. (Horace Capron, Commissioner.) Cl. 1869. 671 pp. AG. 2 : 868  
Index.

Also in 40 Cong., 3d sess., H. doc., v. 15.

In 1868 the custom of printing desultory essays in the annual reports of the Commissioner was abandoned, and the annual report of the Department of Agriculture included only reports of the Commissioner and of the division officers and special agents of the Department, included under the report of the editor of the annual digests of the researches of the office.

*Same*, 1869. Cl. 1870. 702 pp. Index. AG. 2 : 869  
Also in 41 Cong., 2d sess., H. doc., v. 14.

*Same*, 1870. Cl. 1871. 688 pp. Index. AG. 2 : 870  
Also in 41 Cong., 3d sess., H. doc., v. 13.

*Same*, 1871. (Frederick Watts, Commissioner.) Cl. 1872. 524 pp. Index. AG. 2 : 871

Also in 42 Cong., 2d sess., H. doc., v. 17.

*Same*, 1872. Cl. 1874. 524 pp. Index. AG. 2 : 872  
From 1872-1879 these reports are not included in the Congressional set of documents.

*Same*, 1873. Cl. 1874. 496 pp. Index. AG. 2 : 873

*Same*, 1874. Cl. 1875. 463 pp. Index. AG. 2 : 874

*Same*, 1875. Cl. 1876. 536 pp. Index. AG. 2 : 875

*Same*, 1876. Cl. 1877. 447 pp. Index. AG. 2 : 876

*Same*, 1877. (William G. Le Due, Commissioner.) Cl. 1878. 592 pp. AG. 2 : 877

*Same*, 1878. Cl. 1879. 608 pp. Index. AG. 2 : 878

*Same*, 1879. Cl. 1880. 621 pp. Index. AG. 2 : 879

*Same*, 1880. Cl. 1881. 672 pp. Index. AG. 2 : 880  
Also in 46 Cong., 3d sess., S. ex. doc., v. 1.

*Same*, 1881-82. Cl. 1882. 704 pp. Index. AG. 2 : 881-2  
Also in 47 Cong., 1st sess., H. ex. doc., v. 26.

*Same*, 1883. (George B. Loring, Commissioner.) Cl. 1883. 496 pp. Index. AG. 2 : 883

Also in 47 Cong., 2d sess., H. ex. doc., v. 25.

*Same*, 1884. Cl. 1885. 581 pp. Index. AG. 2 : 884  
Also in 48 Cong., 1st sess., H. ex. doc., v. 32.

*Same*, 1885. (Norman J. Colman, Commissioner.) Cl. 1885. 640 pp. Index. AG. 2 : 885

Also in 48 Cong., 2d sess., H. ex. doc., v. 34.

*Same*, 1886. Cl. 1887. 719 pp. Index. AG. 2 : 886  
Also in 49 Cong., 1st sess., H. ex. doc., v. 37.

*Same*, 1887. Cl. 1888. 724 pp. Index. AG. 2 : 887  
Also in 49 Cong., 2d sess., H. ex. doc., v. 28.

*Same*, 1888. Cl. 1889. 685 pp. Index. AG. 2 : 888  
Also in 50 Cong., 1st sess., H. ex. doc., v. 32.

- Report of the Secretary of Agriculture, 1889. (J. M. Rusk, Secretary.) Cl. 1890. 560 pp. Index. AG. 2 : 889  
 Also in 51 Cong., 1st sess., H. ex. doc., v. 17.
- Same*, 1890. Cl. 1891. 612 pp. Index..... AG. 2 : 890  
 Also in 51 Cong., 2d sess., H. ex. doc., v. 17.
- Same*, 1891. (J. Sterling Morton, Secretary.) Cl. 1892. 653 pp. Index. AG. 2 : 891  
 Also in 52 Cong., 1st sess., H. ex. doc., v. 20.
- Same*, 1892. Cl. 1893. 656 pp. Index..... AG. 2 : 892  
 Also in 52 Cong., 2d sess., H. ex. doc., v. 20.
- Same*, 1893. Cl. 1894. 608 pp. Index..... AG. 2 : 893  
 Also in 53 Cong., 2d sess., H. doc., v. 19.
- Same*, 1894. Cl. 220 pp. 2 figs. Index..... AG. 2 : 894  
 Also in 53 Cong., 3d sess., H. doc., v. 19.

Beginning with 1894 the Annual Report of the Secretary will contain only the annual reports of the chiefs of divisions, and all supplementary scientific material will be published in a year-book for more general distribution. (See section 73 of act providing for the public printing and binding and the distribution of public documents, which is as follows: "The Annual Report of the Secretary of Agriculture shall hereafter be submitted and printed in two parts, as follows: Part one, which shall contain purely business and executive matter which it is necessary for the Secretary to submit to the President and Congress; part two, which shall contain such reports from the different bureaus and divisions, and such papers, prepared by their special agents, accompanied by suitable illustrations as shall, in the opinion of the Secretary, be specially suited to interest and instruct the farmers of the country, and to include a general report of the operations of the Department, for their information. There shall be printed of part one, one thousand copies for the Senate, two thousand copies for the House, and three thousand copies for the Department of Agriculture; and of part two, one hundred and ten thousand copies for the use of the Senate, three hundred and sixty thousand copies for the use of the House of Representatives, and thirty thousand copies for the use of the Department of Agriculture, the illustrations for the same to be executed under the supervision of the Public Printer, in accordance with directions of the Joint Committee on Printing, said illustrations to be subject to the approval of the Secretary of Agriculture; and the title of each of the said parts shall be such as to show that such part is complete in itself.")

#### MONTHLY REPORTS.

[This series of publications was begun under Isaac Newton, Commissioner, and contains reports on the condition of the crops, on special subjects of interest to farmers, and meteorological observations received from the Smithsonian Institution, under the direction of Professor Henry. This series was discontinued in 1876, but it will be noticed that the Special Reports (old series) continue the reports on the conditions of crops, etc., beginning in 1877.]

- V. 1. 1863-64. n. t. p. Monthly reports, May-Nov., 1863; bimonthly reports, Jan.-Dec., 1864; monthly reports, Jan.-Feb., 1865. AG. 21 : 1

May-June, 1863, 16 pp.; July, 19 pp.; Aug., 20 pp.; Sept., 41 pp.; Oct., 20 pp.; Nov., 38 pp.; Jan.-Feb., 1864, 72 pp.; Mar.-Apr., 96 pp.; Apr.-May, 38 pp.; June-July, 23 pp.; Sept.-Oct., 56 pp.; Nov.-Dec., 59 pp.

In some volumes Jan. and Feb., 1865, will be found bound with the reports of 1863-64.



- V. 2. 1865. n. t. p. Monthly reports, Jan.-Dec., 1865 . . . AG. 21 : 2  
 Jan., 50 pp.; Feb., 48 pp.; Mar., 41 pp.; Apr.-May, 86 pp.; June-July, 60 pp.; Aug., 51 pp.; Sept., 51 pp.; Oct., 46 pp.; Nov., 53 pp.; Dec., 43 pp., and the industrial colleges: the nature of the education to be given in them; their several kinds and courses of instruction considered, by L. Bollman; to which is added a communication on the general plan of the college building, with the necessary aids to instruction in each department of education, by Richard D. Owen. 1864. 40 pp.
- V. 3. Monthly report of the Department of Agriculture for the year 1866. J. R. Dodge, editor. 1867. AG. 21 : 3  
 Jan., pp. 1-50; Feb., pp. 51-122; Mar., pp. 123-169; Apr., pp. 170-228; June, pp. 229-276; July, pp. 277-324; Sept., pp. 325-371; Oct., pp. 372-457.
- V. 4. *Same*, 1867. J. R. Dodge, editor. 1868. 397 pp. . . . AG. 21 : 4  
 Jan., pp. 1-48; Feb., pp. 51-80; Mar., pp. 82-127; Apr., pp. 131-186; May-June, pp. 189-233; July, pp. 237-311; Oct., pp. 315-352; Nov.-Dec., pp. 354-397.
- V. 5. *Same*, 1868. Edited by J. R. Dodge, Statistician. AG. 21 : 5  
 1868. 483 pp. Index.  
 Jan., pp. 1-55; Feb., pp. 60-107; Mar., pp. 112-169; Apr., pp. 174-234; May-June, pp. 238-307; July, pp. 312-339; Aug.-Sept., pp. 344-383; Oct., pp. 388-420; Nov.-Dec., pp. 424-483.
- V. 6. *Same*, 1869. Edited by J. R. Dodge, Statistician. AG. 21 : 6  
 1869. 419 pp. Index.  
 Jan., pp. 4-40; Feb., pp. 44-82; Mar.-Apr., pp. 86-185; May-June, pp. 190-262; July, pp. 266-314; Aug.-Sept., pp. 266-326; Oct., pp. 330-386; Nov.-Dec., pp. 330-419.  
 In the printed volume there is an error in the pagination of the Nov.-Dec. number.
- V. 7. *Same*, 1870. Edited by J. R. Dodge, Statistician. AG. 21 : 7  
 1871. 498 pp. Index.  
 Jan., pp. 4-64; Feb., pp. 68-110; Mar.-Apr., pp. 114-187; May-June, pp. 192-260; July, pp. 264-308; Aug.-Sept., pp. 314-385; Oct., pp. 390-454; Nov.-Dec., pp. 458-498.
- V. 8. *Same*, 1871. 1872. 517 pp. Index. . . . . AG. 21 : 8  
 Jan., pp. 4-52; Feb., pp. 56-92; Mar.-Apr., pp. 96-168; May-June, pp. 172-230; July, pp. 234-391; Aug.-Sept., pp. 296-376; Oct., pp. 380-430; Nov.-Dec., pp. 434-517.
- V. 9. *Same*, 1872. 1873. 528 pp. Index. . . . . AG. 21 : 9  
 Jan., pp. 4-48; Feb., pp. 52-102; Mar.-Apr., pp. 106-169; May-June, pp. 174-246; July, pp. 250-326; Aug.-Sept., pp. 330-409; Oct., pp. 414-465; Nov.-Dec., pp. 470-528.
- V. 10. *Same*, 1873. 1873. 618 pp. Index. . . . . AG. 21 : 10  
 Jan., pp. 4-48; Feb., not issued; Mar., pp. 52-131; Apr., pp. 136-208; May-June, pp. 212-297; July, pp. 302-383; Aug.-Sept., pp. 388-463; Oct., pp. 468-518; Nov.-Dec., pp. 522-618.
- V. 11. *Same*, 1874. 1875. 545 pp. Index. . . . . AG. 21 : 11  
 Jan., pp. 6-70; Feb.-Mar., pp. 76-173; Apr.-May, pp. 180-242; June, pp. 246-285; July, pp. 290-338; Aug.-Sept., pp. 342-400; Oct., pp. 404-459; Nov.-Dec., pp. 464-545.
- V. 12. *Same*, 1875. 1876. 532 pp. Index. . . . . AG. 21 : 12  
 Jan., pp. 4-63; Feb.-Mar., pp. 68-146; Apr., pp. 150-168; May-June, pp. 190-257; July, pp. 262-329; Aug.-Sept., pp. 334-411; Oct., pp. 416-471; Nov.-Dec., pp. 476-532.
- V. 13. *Same*, 1876. 1877. 511 pp. Index. . . . . AG. 21 : 13  
 Jan.-Feb., pp. 4-74; Mar.-Apr., pp. 78-129; May-June, pp. 134-214; July, pp. 218-291; Aug.-Sept., pp. 296-379; Oct., pp. 384-439; Nov.-Dec., pp. 444-511.

## SPECIAL REPORTS (OLD SERIES).

[Also known as Special Reports, numbered.]

- No. 1. The cane sugar industry. 1877. 32 pp ..... AG. 22 : 1  
Also in Annual Report of the Commissioner of Agriculture for 1877, pp. 22-46.
- No. 2. Report upon the condition of crops; also statement of the international wheat supply and our own wheat exports, together with foreign crops and prices. 1877. 35 pp. AG. 22 : 2
- No. 3. *Thea viridis*, or Chinese tea plant, and the practicability of its culture and manufacture in the United States; also some remarks on the cultivation of the coffee plant. 1877. 26 pp. AG. 22 : 3
- No. 4. Cultivation of the fig, and the method of preparing the fruit for commerce; also report on the importance of the cultivation of the palm. 1878. 17 pp. AG. 22 : 4
- No. 5. Report upon the condition of the crops. June 1, 1878. 10 pp. AG. 22 : 5
- No. 6. *Same*, July 1, 1878. 17 pp..... AG. 22 : 6
- No. 7. *Same*, Aug. 1, 1878. 26 pp..... AG. 22 : 7
- No. 8. *Same*, Sept. 1, 1878. 22 pp..... AG. 22 : 8
- No. 9. *Same*, Dec. 1, 1878. 28 pp..... AG. 22 : 9
- No. 10. *Same*, and live stock. Jan., 1879. 21 pp..... AG. 22 : 10
- No. 11. Riley, C. V. The silkworm; being a brief manual of instructions for the production of silk. Ill. 5th ed., 1885. 37 pp. AG. 22 : 11
- No. 12. Investigation of diseases of swine, and infectious and contagious diseases incident to other classes of domesticated animals. 1879. 292 pp. AG. 22 : 12  
Continued in Nos. 22 and 34.
- No. 13. Report upon the condition of crops and live stock. Apr., 1879. 26 pp. AG. 22 : 13
- No. 14. *Same*, June 1, 1879. 24 pp..... AG. 22 : 14
- No. 15. *Same*, July 1, 1879. 24 pp..... AG. 22 : 15
- No. 16. *Same*, Aug. 1, 1879. 25 pp..... AG. 22 : 16
- No. 17. *Same*, Sept., 1879. 25 pp ..... AG. 22 : 17
- No. 18. Saunders, W. Tea culture as a probable American industry. 1879. 21 pp. AG. 22 : 18
- No. 19. Report upon the condition of the crops. Nov. 1, 1879. 21 pp. AG. 22 : 19
- No. 20. *Same*, Dec. 1, 1879. 15 pp..... AG. 22 : 20
- No. 21. Report upon the numbers and prices of farm animals. Jan. 1, 1880. 27 pp. AG. 22 : 21
- No. 22. Contagious diseases of domesticated animals. Continuation of investigation by Department of Agriculture. (See No. 12.) 1880. 268 pp., ill., viii col. pls. AG. 22 : 22  
Begun in No. 22; see also No. 34.
- No. 23. Report upon the condition of crops and live stock. Apr., 1880. 22 pp. AG. 22 : 23
- No. 24. Report upon the condition of crops. June and July, 1880. 29 pp. AG. 22 : 24
- No. 25. *Same*, Aug. 1, 1880. 29 pp..... AG. 22 : 25
- No. 26. McMurtrie, William. Report on the culture of the sumac in Sicily, and its preparation for market in Europe and the United States. 1880. 19 pp., viii pls. AG. 22 : 26

- No. 27. Report upon the condition of crops. Sept. 1, 1880. AG. 22 : 27  
34 pp.
- No. 28. McMurtrie, William. Report on the culture of the sugar beet and the manufacture of sugar therefrom in France and the United States. 1880. 294 pp., xxxii pls., maps. AG. 22 : 28
- No. 29. Report upon the condition of the crops. Nov. 1, 1880. 19 pp. AG. 22 : 29
- No. 30. *Same*, Dec. 1, 1880. 19 pp. AG. 22 : 30
- No. 31. Lyman, C. P. Contagious pleuropneumonia. 3d report. 1881. 20 pp., vi col. pls. AG. 22 : 31
- No. 32. Report upon the condition of the crops and live stock. Apr., 1881. 22 pp. AG. 22 : 32
- No. 33. Collier, P. Report of analytical and other work done on sorghum and cornstalks by the Chemical Division of the Department. July-Dec., 1880. 1881. 101 pp., xiv pls. AG. 22 : 33
- No. 34. Contagious diseases of domesticated animals. Continuation of the investigations by the Department of Agriculture. (See Nos. 12 and 22.) 1881. 391 pp., ill., col. pls. AG. 22 : 34
- No. 35. Comstock, J. H. Report on insects injurious to sugar cane. 1881. 11 pp., ill. AG. 22 : 35
- No. 36. McMurtrie, William. Report upon statistics of grape culture and wine production in the United States for 1880. 1881. 104 pp. AG. 22 : 36
- No. 37. Report upon the condition of crops. June and July, 1881. 24 pp. AG. 22 : 37
- No. 38. *Same*, Aug. 1, 1881. 20 pp. AG. 22 : 38
- No. 39. *Same*, Sept. 1, 1881. 30 pp. AG. 22 : 39
- No. 40. Andrews, C. C. Condition and needs of spring-wheat culture in the Northwest. 1882. 99 pp. AG. 22 : 40
- No. 41. Report upon the estimated production of cereals of the United States for the year 1881. 1882. 8 pp. AG. 22 : 41
- No. 42. Report on the condition of winter grain, and upon the number and values of farm animals of the United States. Apr., 1882. 82 pp. AG. 22 : 42
- No. 43. *Same*, the progress of cotton and corn planting, the rates of wages and labor, and results of tile draining. May, 1882. 20 pp. AG. 22 : 43
- No. 44. Report upon the acreage and condition of cotton, the condition of all cereals, and the area of spring grain. June, 1882. 15 pp. AG. 22 : 44
- No. 45. Report upon the area and condition of corn, the condition of cotton, and of small grains, sorghum, tobacco, etc. July, 1882. 33 pp. AG. 22 : 45
- No. 46. Report upon the condition of corn and cotton, of spring wheat, fruits, etc.; also, freight rates of transportation companies. Aug., 1882. 54 pp. AG. 22 : 46
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- No. 48. Silos and ensilage. A record of practical tests in several States and Canada. 1882. 70 pp. AG. 22 : 48
- No. 49. Report upon the condition of corn and cotton, of potatoes, fruits, etc.; also freight rates of transportation companies. Sept., 1882. 48 pp. AG. 22 : 49



- No. 50. The dissemination of Texas fever of cattle, and how to control it. 1882. 14 pp. AG. 22 : 50
- No. 51. Report upon the yield and quality of small grain, the condition of corn and cotton, of potatoes, tobacco, etc.; also freight rates of transportation companies. Oct., 1882. 58 pp. AG. 22 : 51
- No. 52. Report of yield per acre of cotton, corn, potatoes, and other field crops, with comparative production of fruits; also local freight rates of transportation companies. Nov., 1882. 109 pp. AG. 22 : 52
- No. 53. Report on production and price and principal crops of 1882; also freight rates of transportation companies, including changes of the winter tariff. Dec., 1882. 79 pp. AG. 22 : 53
- No. 54. Loring, Hon. G. B. Address before the Mississippi Valley Cane Growers' Association, St. Louis, Mo., Dec. 14, 1882. 1883. 19 pp. AG. 22 : 54
- No. 55. Aiken, Dr. Wyatt. The Grange; its origin, progress and educational purposes. Jan., 1883. 18 pp. AG. 22 : 55
- No. 56. Report upon the numbers and values of farm animals, of the production and quality of cotton, and the comparative values of American and European farm implements; also rates of transportation in Europe and the United States. Feb., 1883. 74 pp. AG. 22 : 56
- No. 57. Report on the distribution and consumption of corn and wheat, and the rates of transportation of farm products. Mar., 1883. 39 pp. AG. 22 : 57
- No. 58. Report on the area and condition of winter wheat, and the condition of farm animals; also rates of transportation companies. Apr., 1883. 46 pp. AG. 22 : 58
- No. 59. *Same*, the progress of cotton planting, and estimates of the cereals of 1882; with freight rates of transportation companies. May, 1883. 65 pp. AG. 22 : 59
- No. 60. Report on the acreage of spring grain and cotton, the conditions of winter wheat, and European grain prospects; with freight rates of transportation companies. June, 1883. 56 pp. AG. 22 : 60
- No. 61. Report on the area of corn, potatoes, and tobacco, and the condition of growing crops in the United States and Europe; with a report on the freight rates of transportation companies. July, 1883. 48 pp. AG. 22 : 61
- No. 62. Saunders, W. Observations on the soils and products of Florida. 1883. 30 pp. AG. 22 : 62
- No. 63. Vasey, G. The grasses of the United States, being a synopsis of the tribes and genera; with descriptions of the genera, and a list of the species. 1883. 47 pp. AG. 22 : 63
- No. 64. Report on the condition of the crops, "American competition," and freight rates of transportation companies. Aug., 1883. AG. 22 : 64
- No. 65. Report on the condition of crops, and on freight rates of transportation companies. Sept., 1883. 55 pp. AG. 22 : 65

With this number this series was discontinued, but in Oct., 1883, it was resumed under the Division of Statistics as Statistical Reports. (See AG. 311.)



## MISCELLANEOUS REPORTS (NEW SERIES).

- No. 1. Loring, G. B. Forestry in the United States; address before the American Forestry Congress, St. Paul, Aug. 8, 1883. 41 pp. AG. 23 : 1
- No. 2. Proceedings of a convention (the second) of agriculturists, Washington, Jan., 1883, including address on the necessity of agricultural education. By A. J. Smith. 245 pp. Index. AG. 23 : 2
- No. 3. Hurt, A. B. Mississippi; its climate, soil and agricultural capabilities. 89 pp. 1884. AG. 23 : 3
- No. 4. Boardman, S. L. The climate, soil, physical resources, and agricultural capabilities of the State of Maine, with special reference to the occupation of its new lands. 60 pp. 1884. AG. 23 : 4
- No. 5. The proper value and management of Government timber lands, and the distribution of North American forest trees; being papers read at the United States Department of Agriculture, May 7-8, 1884. 47 pp. AG. 23 : 5
- No. 6. Loring, G. B. Address at the National Convention of Cattle Breeders, Chicago, Nov., 1884. 21 pp. AG. 23 : 6
- No. 7. Nesbit, D. M. Tide marshes of the United States; with contributions from the United States Coast Survey. By S. L. Boardman, E. Morse, and others. Index. 259 pp. AG. 23 : 7
- No. 8. Branner, J. C. Cotton in the Empire of Brazil; the antiquity, methods, and extent of its cultivation, together with statistics of exportation and home consumption. 1885. 79 pp. AG. 23 : 8
- No. 9. Proceedings of a convention of delegates from agricultural colleges, held at the Department of Agriculture July 8 and 9, 1885. 196 pp. AG. 23 : 9
- No. 10. Dodge, C. R. Descriptive catalogue of the manufactures from native woods as shown in the exhibit of the United States Department of Agriculture at the World's Exposition at New Orleans. 1886. Index. 184 pp. AG. 23 : 10

## FARMERS' BULLETINS.

- No. 1. The what and why of agricultural experiment stations. 16 pp. June, 1889. AG. 24 : 1
- No. 2. Work of the agricultural experiment stations. 16 pp. May, 1890. AG. 24 : 2
- No. 3. Wiley, H. W. Culture of the sugar beet. ix figs., 24 pp. (Division of Chemistry.) Mar., 1891. AG. 24 : 3
- No. 4. Galloway, B. T. Fungous diseases of the grape. (Division of Vegetable Pathology.) Feb., 1891. AG. 24 : 4
- No. 5. Swingle, W. T. Treatment of smuts of oats and wheat. 8 pp. (Division of Vegetable Pathology.) Feb., 1891. AG. 24 : 5
- No. 6. Estes, J. M. Tobacco: instructions for its cultivation and curing. 8 pp. Feb., 1892. AG. 24 : 6

- No. 7. Spraying fruits for insect pests and fungous diseases, with a special consideration of the subject in its relation to public health. 20 pp. Apr., 1892. AG. 24 : 7
- No. 8. Salmon, D. E. Results of experiments with inoculation for the prevention of hog cholera. 40 pp. (Bureau of Animal Industry.) Apr., 1892. AG. 24 : 8
- No. 9. Milk fermentations and their relations to dairying. 24 pp. (Office of Experiment Stations.) July, 1892. AG. 24 : 9
- No. 10. Dewey, L. H. The Russian thistle and other troublesome weeds in the wheat region of Minnesota and North and South Dakota. 16 pp., 2 pls. (Division of Botany.) Jan., 1893. AG. 24 : 10
- No. 11. Shaw, T. The rape plant: its history, culture, and uses. 20 pp., iv figs. (Office of Experiment Stations.) June, 1893. AG. 24 : 11
- No. 12. Wiley, H. W. Nostrums for increasing the yield of butter. 16 pp. (Division of Chemistry.) June, 1893. AG. 24 : 12
- No. 13. Saunders, W. Cranberry culture. 16 pp. Jan., 1894. AG. 24 : 13
- No. 14. McBryde, J. M. Fertilizers for cotton. 32 pp. (Office of Experiment Stations.) Mar., 1894. AG. 24 : 14
- No. 15. Galloway, B. T. Some destructive potato diseases; what they are and how to prevent them. 8 pp., iii figs. (Division of Vegetable Pathology.) Apr., 1894. AG. 24 : 15
- No. 16. Allen, E. W. Leguminous plants for green manuring and for feeding. 24 pp. (Office of Experiment Stations.) Apr., 1894. AG. 24 : 16
- No. 17. Smith, E. F. Peach yellows and peach rosette. 20 pp., vii figs. (Division of Vegetable Pathology.) May, 1894. AG. 24 : 17
- No. 18. Tracy, S. M. Forage plants for the South. (Office of Experiment Stations.) Aug., 1894. AG. 24 : 18
- No. 19. Marlatt, C. L. Important insecticides: directions for their preparation and use. 23 pp. (Division of Entomology.) July, 1894. AG. 24 : 19
- No. 20. Washed soils: how to prevent and reclaim them. 22 pp., vi figs. Nov., 1894. AG. 24 : 20
- No. 21. Beal, W. H. Barnyard manure. 32 pp., vii figs. (Office of Experiment Stations.) Nov., 1894. AG. 24 : 21
- No. 22. Allen, E. W. The feeding of farm animals. 32 pp. (Office of Experiment Stations.) Feb., 1895. AG. 24 : 22
- No. 23. Atwater, W. O. Foods: nutritive value and cost. 32 pp. (Office of Experiment Stations.) Jan., 1895. AG. 24 : 23
- No. 24. Salmon, D. E. Hog cholera and swine plague. 16 pp. (Bureau of Animal Industry.) Dec., 1894. AG. 24 : 24
- No. 25. Handy, R. B. Peanuts: culture and uses. 24 pp., i fig. (Office of Experiment Stations.) Feb., 1895. AG. 24 : 25
- No. 26. Duggar, J. F. Sweet potatoes: culture and uses. 30 pp., iv figs. (Office of Experiment Stations.) Mar., 1895. AG. 24 : 26
- No. 27. Dodge, C. R. Flax for seed and fiber. 16 pp. (Office of Fiber Investigations.) Mar., 1895. AG. 24 : 27
- No. 28. Dewey, L. H. Weeds; and how to kill them. 31 pp., xi figs. (Division of Botany.) May, 1895. AG. 24 : 28

## SPECIAL REPORTS (UNNUMBERED).

1839. Letter from the Commissioner of Patents (H. L. Ellsworth) to the chairman of the Committee on Patents and the Patent Office, in relation to the collection and distribution of **seeds and plants**. Jan. 28. 3 pp. Also in 25 Cong., 3d sess., S. doc. No. 151.

1846. Speech of the Honorable J. Horsford, of New York, in favor of the **establishment of an agricultural bureau**; delivered in the House of Representatives June 24, 1852. 7 pp.

1856. Letter from the Commissioner of Patents (C. Mason) in obedience to the act of Aug. 18, 1856, respecting the purchase of **seeds** by that Department. Aug. 18. 10 pp. In 34 Cong., 3d sess., S. doc. No. 61.

1862. Report on the chemical analysis of grapes. By Charles M. Wetherill, Chemist of the Department. 6 pp.

AG. 25 :

Also published with Annual Report of the Commissioner for 1862.

1862. Letter from the Secretary of the Interior (C. B. Smith) in answer to a resolution of the House of the 20th of Jan., in relation to **appropriation in aid of agriculture**. Jan. 30. 8 pp. Also in 37 Cong., 2d sess., H. ex. doc. No. 43.

1862. Letter from the Commissioner of Patents (D. P. Holloway) in answer to resolution of the House of 3d of Dec., relative to the **expenditure of the agricultural fund**. Dec. 9. 8 pp. In 37 Cong., 3d sess., H. ex. doc. No. 5.

1862. Letter from the Commissioner of the Department of Agriculture (Isaac Newton) in answer to resolutions of the House of 3d and 5th Dec., 1862, in regard to the **expenditure of the agricultural fund**. Dec. 18. In 37 Cong., 3d sess., H. ex. doc. No. 14.

1864. Letter from the Commissioner of Agriculture (Isaac Newton) to the Committee on Agriculture, upon the subject of the **taxation of tobacco** as recommended by the Commissioner of Internal Revenue. Jan. 21. 6 pp. In 38 Cong., 1st sess., S. mis. doc. No. 13.

1865. Letter from the Commissioner of Agriculture (Isaac Newton), transmitting the report of the **Flax and Hemp Commission** appointed under act of Congress, Feb. 25, 1863. Feb., 1865. 96 pp., 12 figs.

1866. Reply of the Commissioner of Agriculture (Isaac Newton) to House resolution of Jan. 25, 1866, relative to **receipts and disbursements of the Department**. Feb. 21. 43 pp. In 39 Cong., 1st sess., H. ex. doc. No. 49.

1866. Letter of the Commissioner of Agriculture (Isaac Newton), communicating, in compliance with a resolution of the Senate of 13th Apr., information in relation to the **rinderpest, or cattle plague**. Apr. 18. In 39 Cong., 1st sess., S. mis. doc. No. 98.

1867. Letter from the Commissioner of Agriculture (Horace Capron) in answer to a resolution of the House of the 11th Dec., relative to the **allowance of 20 per cent** for last fiscal year. Dec. 16. 1 p. In 40 Cong., 2d sess., H. ex. doc. No. 55.

1868. Report of the Commissioner of Agriculture (Horace Capron) in response to House resolution of 9th Dec., 1867, instructing the Commissioner to report the "**condition of the Department of Agriculture** and what legislation is necessary to enable him to so reorganize the Department as to place it upon a footing commensurate with the vast interests committed to its charge." Jan. 13. 11 pp. In 40 Cong., 2d sess., H. ex. doc. No. 91.

1868. Letter from the Commissioner of Agriculture (Horace Capron) relative to the **manufacture of beet sugar**. Feb. 28. 3 pp. In 40 Cong., 2d sess., H. mis. doc. No. 84.

1867. General index for the reports on agriculture from 1847 to 1866, inclusive. 20 pp.

AG. 25 :

Included in Annual Report of the Commissioner for 1867, pp. 473-493.



1870. Contagious pleuro-pneumonia, or lung plague of cattle: where and to what extent it exists. 17 pp. AG. 25 :  
Also in 46 Cong., 2d sess., S. mis. doc. No. 7.
1870. List of the agricultural, horticultural, and pomological societies, farmers' clubs, etc., on the books of the Department of Agriculture. July 1. 47 pp. AG. 25 :
1872. List of the agricultural colleges, and of farmers' clubs, and agricultural, horticultural, and pomological societies on the books of the Department, June 1. 66 pp. AG. 25 :
1872. Proceedings of the National Agricultural Convention, at Washington, Feb. 15-17, 1872. 84 pp. AG. 25 :  
Also in 42 Cong., 2d sess., S. mis. doc. No. 164.
1872. Saunders, William. Descriptive catalogue of plants in the exotic collection of the Department of Agriculture. 51 pp. AG. 25 :
1872. Swank, J. M. The Department of Agriculture: its history and objects. 12°. 64 pp. AG. 25 :  
1871. Letter from the Commissioner of Agriculture (Frederick Watts) relative to inventory and accounts of the property of the United States in the public buildings and grounds. Dec. 11. 2 pp. In 42 Cong., 2d sess., H. ex. doc. No. 17.
1872. Same, transmitting a list of the articles purchased and disposed of by his Department since the inventory made Dec. 1, 1871. Dec. 10. 2 pp. In 42 Cong., 3d sess., H. ex. doc. No. 34.
1873. Le Franc, Emile. Culture and manufacture of ramie and jute in the United States. 19 pp. AG. 25 :
1875. The Eucalyptus globulus, from a botanic, economic, and medical point of view, embracing its introduction, culture, and uses. English translation from the French of J. E. Planchon. With an introduction. 20 pp. AG. 25 :
1876. The planter's guide for cultivating and curing tobacco; with information and instructions concerning the Shelton tobacco hanger. 24 pp. AG. 25 :
1877. Annual report supplemental of the Commissioner of Agriculture to the President, Nov., 1877; also transmitting supplemental departmental reports 1 and 3. AG. 25 :  
1877. Statement of appropriations and expenditures of the Department of Agriculture from 1839 to 1877, inclusive. 18 pp.
1877. Hough, Franklin B. Report upon forestry, prepared under the direction of the Commissioner of Agriculture in pursuance of an act of Congress approved Aug. 15, 1876. v. 1. Cl. 1878. 650 pp. Index. AG. 25 :  
A second part of this report was issued in 1880.
1879. Circular letter from the Commissioner of Agriculture [William G. Le Duc] relative to the manufacture of maize and sorghum sugars. 21 pp. AG. 25 :
1879. A general index of the agricultural reports of the Patent Office for twenty-five years from 1837 to 1861, and of the Department of Agriculture for fifteen years from 1862 to 1876. By the Commissioner of Agriculture. 225 pp. 2d ed. Apr., 1895. AG. 25 :  
1879. Letter from the Commissioner of Agriculture, communicating information on the subject of pleuro-pneumonia among cattle. Feb. 15. 22 pp.  
Also in 45 Cong., 3d sess., S. mis. doc. No. 71.

1879. Sheep husbandry in the United States. 130 pp. . . . AG. 25 :  
 Also in 45 Cong., 3d sess., S. ex. doc. No. 25.
1880. Letter from the Commissioner of Agriculture [William G. Le Duc] to the Hon. John W. Johnston, United States Senate, on sorghum sugar. 42 pp., xxxiii pls. AG. 25 :  
 1880. Communication from the Commissioner of Agriculture relative to the establishment of an experiment station in the District of Columbia. 6 pp. AG. 25 :  
 Also in 47 Cong., 1st sess., H. mis. doc. No. 30.  
 1880. Message from the President of the United States, transmitting documents received from the Commissioner of Agriculture relative to **contagious pleuro-pneumonia**. 75 pp., v pls.  
 Also in 46 Cong., 3d sess., S. ex. doc. No. 5.  
 1880. Letter from the Commissioner of Agriculture to the Honorable B. Le Fevre, chairman of the subcommittee on agriculture of the House, regarding the needs of the Department. 15 pp.
1880. Hough, Franklin B. Report upon forestry, prepared under the direction of the Commissioner of Agriculture, in pursuance of an act of Congress approved Aug. 15, 1876. v. 2. Cl. 1880. 618 pp. Index. AG. 25 :  
 The first part was issued in 1877 and the third part in 1882.
1881. Address of G. B. Loring, and other proceedings of the Cotton Convention held in Atlanta, Ga., Nov. 2. 35 pp. AG. 25:
1881. Atwater, W. O. Fertilizers: Cooperative experimenting as a means of studying effects of fertilizers and the feeding capacity of plants. 33 pp. AG. 25:  
 1881. Letter from the Commissioner of Agriculture on experiments made under the direction of the Department, by Dr. D. E. Salmon, for the **prevention of fowl cholera**.
1881. Preliminary report of the Department of Agriculture for 1880. 155 pp. Ill. AG. 25:
1882. Artesian wells upon the great plains; being the report of a geological commission appointed to examine a portion of the great plains east of the Rocky Mountains, and to report upon the localities deemed most favorable for making experimental borings. 37 pp., 1 map. AG. 25:
1882. Hilgard, E. W., T. C. Jones, and R. W. Furnas. Climatic and agricultural features and the agricultural practice and needs of the arid regions of the Pacific Slope, with notes on Arizona and New Mexico. 182 pp. Index. AG. 25:
1882. Carse, G. B., and James H. Foss. Florida: its climate, soil, productions, and agricultural capabilities. 98 pp. AG. 25:
1882. Proceedings of a convention of agriculturists, held in the Department of Agriculture Jan. 10-18. 204 pp. AG. 25 :
1882. Hough, Franklin B. Report upon forestry, prepared under the direction of the Commissioner of Agriculture, in pursuance of an act of Congress approved Aug. 15, 1876. v. 3. Cl. 318 pp. Index. AG. 25:  
 Part 1 was issued in 1877, part 2 in 1880, and part 4 in 1884.  
 1882. Communication from the Commissioner of Agriculture (George B. Loring) relative to the establishment of an "experiment station" in the District of Columbia. Feb. 1. 6 pp. In 47 Cong., 1st sess., H. mis. doc. No. 30.  
 1882. Letter from the Commissioner of Agriculture (George B. Loring) in response to a resolution of the House of Representatives relative to the **growth of cinchona** in the United States. May 17. 3 pp. In 47 Cong., 1st sess., H. mis. doc. No. 39.

1883. Area and product of cereals grown in 1879 as returned by the census of 1880. 97 pp. AG. 25 :
1883. Contagious diseases of domesticated animals; investigations made during 1883-84. 368 pp., xiv pls. AG. 25 :
1883. Klee, W. G. Culture of the date. 25 pp. AG. 25 :
1883. Encouragement to the sorghum and beet sugar industry; a record of practical experiments conducted under the direction of the Commissioner of Agriculture (G. B. Loring). 64 pp. AG. 25 :
1883. Collier, P. Investigation of sorghum as a sugar-producing plant. 68 pp., 1 diagr. AG. 25 :
1883. Smith, A. J. The necessity of agricultural education; being an address delivered before the Convention of Presidents and Professors of Agricultural Colleges, etc. 15 pp. AG. 25 :
- Also in Mis. Reports, new series, No. 2.
1883. Baker, F. P., and R. W. Furnas. Preliminary report on the forestry of the Mississippi Valley, and tree planting on the plains. 45 pp. AG. 25 :
1883. Loring, G. B. Report of proceedings of a national convention of cattle breeders and others at Chicago, Nov. 15-16, to consider the subject of contagious diseases of domestic animals. 85 pp. Index. AG. 25 :
1883. Waterhouse, S. Report on jute culture and the importance of the industry. 21 pp. AG. 25 :
1883. Atwater, W. O. Results of field experiments with various fertilizers. 183 pp. AG. 25 :
1884. Vasey, Dr. George. Agricultural grasses of the United States; also, the chemical composition of American grasses, by C. Richardson. 140 pp., cxx pls. AG. 25 :
1884. Loring, G. B. Report of proceedings of a national convention of cattle breeders and others at Chicago. Nov. 14. 21 pp. AG. 25 :
1884. Welch, A. S. Report on the management of seven agricultural schools in Germany, Belgium, and England. 107 pp. AG. 25 :
1884. Saunders, William. Report on the participation of the Department of Agriculture in the International Exhibition of 1876, at Philadelphia. pp. 223-434. AG. 25 :
1884. The silkworm; being a brief manual of instructions for the production of silk. 5th ed. 37 pp. AG. 25 :
1884. Rapley, E. E. The soils and productions of southwestern Louisiana, including the parishes of St. Landry, Lafayette, Vermilion, St. Martin, Iberia, and St. Mary. 40 pp. AG. 25 :
1884. Report on forestry. v. 4. Prepared by Nathaniel H. Eggleston. Cl. 421 pp. Index. 1 map. AG. 25 :

V. 1 was issued 1877; v. 2, 1880; v. 3, 1882.

1884. Letter from the Commissioner of Agriculture (George B. Loring), transmitting a statement of certain grains produced in the United States during certain periods, and their disposition. Mar. 24. 12 pp. In 48 Cong., 1st sess., S. ex. doc. No. 137.

1884. Letter from the Commissioner of Agriculture (George B. Loring), transmitting a list of persons employed, and statement of expenditures and of means adopted, for the suppression of contagious and infectious diseases among domestic animals. Dec. 18. 8 pp. In 48 Cong., 2d sess., H. ex. doc. No. 46.



1885. Colman, N. J. Address before the Convention of Agricultural Colleges and Experimental Stations. 17 pp. AG. 25 :
1885. *Same* and Dr. D. E. Salmon. Addresses before the National Convention of Stockmen, Chicago, Nov. 17-18. 20 pp. AG. 25 :
1885. Destruction of the evergreen and other forest trees in northern New England and New York. 2d report. Reprint from the rep. of the Entomologist for 1884, by A. S. Packard. 12 pp. AG. 25 :
1885. Directory of departments, boards, societies, colleges, and other organizations in the interests of agriculture, horticulture, stock raising, dairying, bee keeping, fish culture, and kindred industries. 88 pp. AG. 25 :
1885. Dodge, J. R. Report of exhibits illustrating agricultural statistics at the World's Industrial and Cotton Exposition at New Orleans, La. 42 pp., xxvii diagr. AG. 25 :
1886. Report on the condition of dairying in the principal dairy States for the season of 1885. 35 pp. AG. 25 :
1886. McMurtrie, William. Report upon an examination of wools and other animal fibers. Cl. 4<sup>o</sup>. 613 pp., lx pls. AG. 25 :

This report is based upon a collection of wools and other animal fibers exhibited at the International Exhibition of Sheep, Wool, and Wool Products, held at Philadelphia, Sept., 1880. Also in 49 Cong., 2d sess., H. mis. doc. No. 392.

1886. Supplement to the general index of the agricultural reports, 1877-1885. 113 pp. AG. 25 :

The general index was issued in 1879.

1887. Rules and regulations of the United States Department of Agriculture for the suppression and extirpation of all contagious, infectious, and communicable diseases among the domestic animals of the United States, prepared by the Commissioner of Agriculture [N. J. Colman]. 7 pp. AG. 25 :

1887. Letter from the Commissioner of Agriculture [Norman J. Colman], transmitting certain papers, in response to a resolution of the House calling for a copy of Department circular of June 6, 1882; a copy of the award of the committee appointed to carry the provisions of the circular into effect; copies of all correspondence with the **Delaware Beet Sugar Company** on the subject, and a statement of the awards paid and to whom. May 14. 6 pp. In 49 Cong., 1st sess., H. mis. doc. No. 284.

1887. *Same*, in response to Senate resolution of June 29, 1886, relative to the **delivery of the annual report**. July 2. 15 pp. In 49 Cong., 1st sess., S. mis. doc. No. 135.

1887. Letter from the Acting Commissioner of Agriculture [F. C. Nesbit], transmitting, in response to a resolution of the House, a report by the Statistician of that Department respecting the **supply and domestic requirement of wheat and corn** and the acreage of wheat. May 29. 11 pp. In 49 Cong., 1st sess., H. mis. doc. No. 303.

1887. Letter from the Commissioner of Agriculture [N. J. Colman], transmitting, in response to a resolution of the House, a statement showing the **amount expended for the chemical division** in laboratory work from the appropriation for the fiscal year and the balance unexpended. Apr. 27. 4 pp. In 49 Cong., 1st sess., H. mis. doc. No. 240.

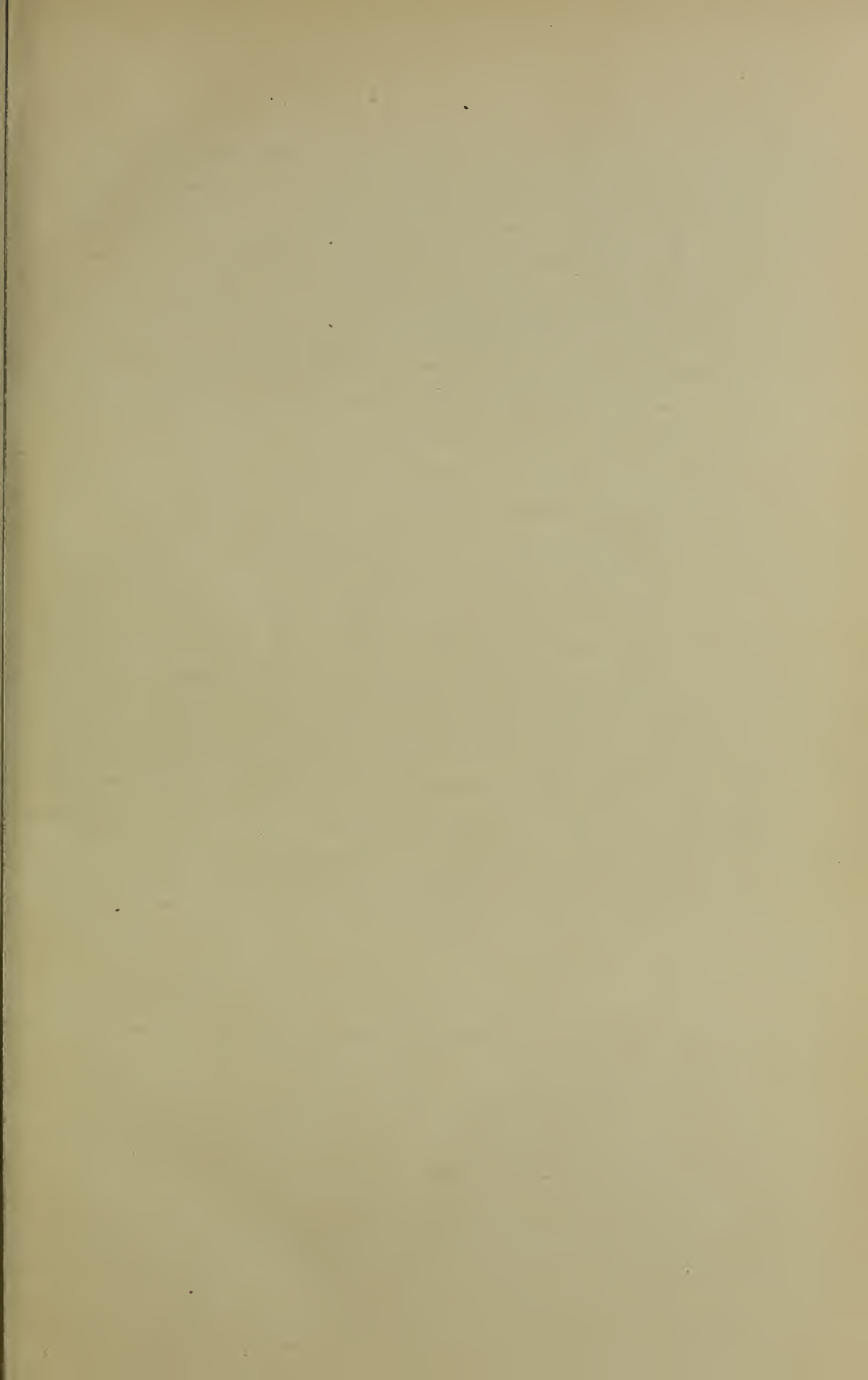
1887. *Same*, transmitting a statement of **expenditures** for the Department of Agriculture for the fiscal year ended June 30, 1885. Mar. 17, 1886. 43 pp. In 49 Cong., 1st sess., H. mis. doc. No. 154.

1887. Colman, N. J., and D. E. Salmon. Addresses delivered before the National Cattle Growers' Convention at Kansas City, Oct. 31 and Nov. 1-2. 11 pp. AG. 25 :
1888. Convention of the Association of American Agricultural Colleges and Experiment Stations, held at the Department of Agriculture, Oct., 1887. 32 pp. AG. 25 :
1888. Letter from the Commissioner of Agriculture, transmitting, in response to Senate resolution of Jan. 30, 1888, the report of Professor Swenson on sorghum sugar. 11 pp. AG. 25 :  
Also in 50 Cong., 1st sess., S. ex. doc. No. 68.
1888. Colman, N. J. Report in response to inquiries of the Select Committee of the United States Senate, appointed to inquire into and examine the methods of business of the Executive Departments. 106 pp. AG. 25 :  
1887. Letter from the Commissioner of Agriculture [Norman J. Colman] in response to Senate resolution of Dec. 7, 1887, relative to employees obtaining patents for the process of sugar making. Dec. 13. 5 pp. Also in 50 Cong., 1st sess., S. ex. doc. No. 24.  
1888. *Same*, transmitting a statement of expenditures in that Department for the fiscal year ended June 30, 1887. Jan. 18. 81 pp. In 50 Cong., 1st sess., H. mis. doc. No. 122.
1889. Allowances for traveling expenses. Department of Agriculture Circular. Oct. 1. 8 pp. AG. 25 :
1890. Circular to the managers and agents of railroad and transportation companies of the United States. "An act to prevent the exportation of diseased cattle, etc.," by the Secretary of Agriculture [J. M. Rusk.] Feb. 24. f° sheet. AG. 25 :
1890. Export of dairy products of the United States from 1821 to 1890. n. d. [1890?] 4° sheet. AG. 25 :
1890. Letter from the Secretary of Agriculture, transmitting a statement of the expenditures in the Department for the fiscal year ending June 30, 1889. 98 pp. AG. 25 :  
Also in 51 Cong., 1st sess., H. ex. doc. No. 104.
1890. Order and regulations for the inspection of cattle and sheep for export, by the Secretary of Agriculture. 7 pp. AG. 25 :
1890. Regulations for the inspection and quarantine of cattle, sheep, and other ruminants, and swine, imported into the United States. 8 pp. AG. 25 :
1890. Regulations for the inspection of salted pork and bacon for export. Sept. 12. 7 pp. AG. 25 :  
1890. Letter from the Secretary of Agriculture, transmitting reports upon the operations of the Women's Silk Culture Association of the United States and of the Ladies' Silk Culture Society of California, and upon experiments made in the District of Columbia with silk-reeling machinery. 30 pp. Also in 51 Cong., 1st sess., H. ex. doc. No. 110.  
1890. *Same*, transmitting the report of the Bureau of Animal Industry. Dec. 11. 104 pp. In 51 Cong., 2d sess., S. ex. doc. No. 8.  
1890. Communication from the Acting Secretary of Agriculture [Edwin Willits] in reference to a deficiency in the appropriation for the North Dakota agricultural experiment station and stating that said appropriation should be made. June 21. 1 p. Also in 51 Cong., 1st sess., H. ex. doc. No. 423.



1891. Dodge, C. R. Annual report upon fiber investigations. 22 pp. AG. 25 :
1891. Saunders, William. Catalogue of economic plants in the collection of the United States Department of Agriculture. 42 pp. AG. 25 :
1891. *Same*. Papers on horticultural and kindred subjects. 124 pp. AG. 25 :
- Reprinted from reports of the Department, 1863-1889.
1891. Dodge, C. R. Recent facts regarding the ramie industry in America, with brief statements relating to its manufacture in Europe. 16 pp. AG. 25 :
1891. Regulations for the inspection of live stock and their products. By the Secretary of Agriculture [J. M. Rusk]. 8 pp. AG. 25 :
1891. Letter from the Secretary of Agriculture, transmitting a statement of the **expenditures in the Department for the fiscal year ending June 30, 1890**. 95 pp.
- Also in 51 Cong., 2d sess., H. ex. doc. No. 35.
1891. Murphy, C. J. Report on the use of maize (Indian corn) in Europe, and on the possibility of its extension. Dec. 36 pp. AG. 25 :
1891. The scientific work of the Department in its relations to practical agriculture. (Special report of the Assistant Secretary [E. Willits] reprinted from the Report of the Secretary for 1890.) 18 pp. AG. 25 :
1891. Letter from the Secretary of Agriculture, transmitting a statement of all purchases of cocoons, and all sales of silk and silk waste, during the fiscal year ending June 30, 1890. Also the reports of the Ladies' Silk Culture Society of California, and the Women's Silk Culture Association of the United States. 25 pp.
- Also in 51 Cong., 2d sess., H. ex. doc. No. 203.
- Same*, transmitting the report of the Bureau of Animal Industry for the year 1891. Dec. 22. 129 pp.
- Also in 52 Cong., 1st sess., S. ex. doc. No. 11.
1892. *Same*, transmitting a statement of the **expenditures in the Department for the fiscal year ending June 30, 1891**. 1892. 132 pp.
- Also in 52 Cong., 1st sess., H. ex. doc. No. 55.
1892. Wiley, H. W., and B. W. Snow. Rapport sur l'usage et les possibilités de l'extension du maïs (blé d'Inde) en Europe. 22 pp. AG. 25 :
- Same*. German ed. Bericht über den Gebrauch von Mais (amerikanisches Korn) in Europa. 23 pp.
- Same*. Spanish ed. Memorias sobre el uso del maíz en Europa y la posibilidad de extender su consumo. 24 pp.
1892. Cooperation of the Department of Agriculture with the educational forces in the United States relating to agriculture. (Special report of the Assistant Secretary [E. Willits], reprinted from the Report of the Secretary of Agriculture for 1891.) 16 pp. AG. 25 :
1892. Letter from the Secretary of Agriculture in response to Senate resolution of Mar. 24, 1892, relative to **certain employees** in his Department. 5 pp.
- Also in 52 Cong., 1st sess., S. ex. doc. No. 75.

1892. Report of the agent of the Department of Agriculture for making experiments in the production of rainfall. Feb. 59 pp., ix pls. AG. 25 :
- Also in 52 Cong., 1st sess., S. ex. doc. No. 45.
1892. Letter from the Secretary of Agriculture [J. M. Rusk], transmitting a detailed statement of all expenditures of appropriations for the Department of Agriculture for the year ending June 30, 1891. Jan. 7, 1892. 134 pp. In 52 Cong., 1st sess., H. ex. doc. No. 55.
1893. Circular letter of the Secretary of Agriculture [J. S. Morton] in relation to cattle imported from Great Britain, or the continent of Europe and the Dominion of Canada. Feb. 3. Letter sheet. AG. 25 :
1893. Duties of the Assistant Secretary; review of the work, 1889-1892. (Special report of the Assistant Secretary [E. Willits], reprinted from the Report of the Secretary of Agriculture for 1892.) 17 pp. AG. 25 :
1893. Wahl, Dr. R. Indian corn (or maize) in the manufacture of beer. Sept. 21 pp. *Same*, German ed. 22 pp. AG. 25 :
1893. Notice of "Simple directions for the sterilization of milk." Dec. 19. Ill. Note-size folio. AG. 25 :
1893. Notice relating to the international exhibition to be held at Vienna next year, from Apr. 20 to June 20. Nov. 27, 1893. Note-size folio. AG. 25 :
1893. Notice of receipt of communications on various subjects. By the Secretary of Agriculture [J. S. Morton]. July 7, 1893. Note-size folio. AG. 25 :
1893. Notice of receipt of letter from Minister Terrell, Constantinople, relating to agriculture in Angora. Nov. 1, 1893. Note-size folio. AG. 25 :
1893. Notice of Department of Agriculture; of its various functions. Folio sheet. Double cols. AG. 25 :
1893. Georgeson, C. C. Progress report on the dairy industries of Denmark. 14 pp. AG. 25 :
1893. Selected correspondence relating to the export trade of the United States in live stock and meat products. 33 pp. AG. 25 :
1893. Shepard, C. U. Special report on tea raising in South Carolina. July. [Reprinted from Report of the Secretary of Agriculture for 1892.] 13 pp., iii pls. AG. 25 :
1893. Statement showing the expenditures of appropriations for experiments in the manufacture of sugar. Mar., 1893. 3 pp. AG. 25 :
- Also in 52 Cong., 2d sess., H. ex. doc. No. 251.
1893. Koebele, A. Studies of parasitic and predaceous insects in New Zealand, Australia, and adjacent islands. June, 1893. 39 pp. AG. 25 :
1893. Circular. Allowances for traveling expenses. July 1, 1893. 11 pp. AG. 25 :
1893. Letter from the Secretary of Agriculture, transmitting the annual report of the Bureau of Animal Industry. Jan. 5, 1893. 229 pp.
- Also in 52 Cong., 2d sess., S. ex. doc. No. 20.
1894. List of publications of the United States Department of Agriculture for the five years 1889-1893. 42 pp. AG. 25 :





1894. Notice of circular on Hungarian brome grass; forwarded by the direction of the Assistant Secretary. June, 1894. AG. 25 :

Issued also as Circular 1, Division of Botany.

1894. Atkinson, Edward. Suggestions regarding the cooking of food. 31 pp. AG. 25 :

1894. Letter from the Secretary of Agriculture relative to the destruction of the noxious plant or weed known as "saltwort," or Russian thistle. 5 pp. AG. 25 :

Also in 53 Cong., 2d sess., S. mis. doc. No. 41.

1894. Letter from the Secretary of Agriculture, in response to Senate resolution, July 31, transmitting information in relation to investigations and experiments in the planting of native pine seed for the growth of native pine in the sand hills of the Northwest. Aug. 2. 14 pp. In 53 Cong., 2d sess., S. ex. doc. No. 172.

1894. *Same*, transmitting, in response to House resolution of Jan. 22, a list of the special agents of the Department, together with a statement of their work, and salaries received, for the four years and six months ending Dec. 31, 1893. June 20. 45 pp. In 53 Cong., 2d sess., H. ex. doc. No. 243.

1894. *Same*, transmitting a detailed statement of the expenditures of the Department of Agriculture for the fiscal year ending June 30, 1894. Nov. 5. 180 pp. In 53 Cong., 3d sess., H. ex. doc. No. 8.

1895. Manual of instructions to crop correspondents. Apr., 1895. 28 pp. AG. 25 :

#### SECTION OF FOREIGN MARKETS.

[Organized May, 1895. The purpose of the section of foreign markets is to furnish information on the world's markets, with special reference to their demands for agricultural products. The section is under the immediate supervision of the Secretary of Agriculture.]

#### *Bulletins.*

- No. 1. The world's markets for American products. Great Britain and Ireland. May, 1895. 93 pp., i fig. AG. 26 : 1  
No. 2. *Same*. The German Empire. June, 1895. 91 pp., i pl. AG. 26 : 2

#### *Circulars.*

- No. 1. Peaches and other fruits in England. June, 1895. 4 pp. AG. 261 : 1

#### DIVISION OF ACCOUNTS AND DISBURSEMENTS.

##### ANNUAL REPORTS.

1892. [F. L. Evans, Chief], in Annual Report of the Secretary for 1892, pp. 513, 514.  
1893. *Same*, in Annual Report of the Secretary for 1893, pp. 411-416.  
1894. *Same*, in Annual Report of the Secretary for 1894, pp. 189-194.

##### SPECIAL REPORTS.

- Regulations governing financial transactions with the U. S. Department of Agriculture, together with extracts from the Revised Statutes, Decisions of the Comptroller, etc. 1894. 42 pp. AG. 27 :



## BUREAU OF ANIMAL INDUSTRY.

[The Bureau of Animal Industry was organized in June, 1894, with D. E. Salmon as Chief. The annual reports of the Chief of the Bureau are bound with those of the Secretary of Agriculture, and for some years have been issued in independent pamphlet form, known as authors' editions. In binding a separate file of these reports, bind together as many as will make a convenient volume and let the classification number be the number of the Bureau (AG. 3:) with the annual numbers added, e. g., AG. 3: 890-94.]

## ANNUAL REPORTS OF THE CHIEF.

1884. [D. E. Salmon, Chief], in Annual Report of the Secretary of Agriculture for 1884, pp. 181-284.  
 1885. *Same*, in Annual Report of the Secretary of Agriculture for 1885, pp. 431-568. vi pls.  
 1886. *Same*, in Annual Report of the Secretary of Agriculture for 1886, pp. 593-686. ix pls.  
 1887. *Same*, in Annual Report of the Secretary of Agriculture for 1887, pp. 457-522. iv pls.  
 1888. *Same*, in Annual Report of the Secretary of Agriculture for 1888, pp. 145-219.  
 1889. *Same*, in Annual Report of the Secretary of Agriculture for 1889, pp. 49-110.  
 1890. *Same*, in Annual Report of the Secretary of Agriculture for 1890, pp. 75-132.  
 1891. *Same*, in Annual Report of the Secretary of Agriculture for 1891, pp. 83-142.  
 1892. *Same*, in Annual Report of the Secretary of Agriculture for 1892, pp. 85-122.  
 1893. *Same*, in Annual Report of the Secretary of Agriculture for 1893, pp. 123-168.  
 1894. *Same*, in Annual Report of the Secretary of Agriculture for 1894, pp. 103-112.

## ANNUAL REPORTS OF THE BUREAU.

First, for the year 1884. Cl. 1885. 512 pp. Index. xv AG. 31 : 884 pls., iv maps.

Also in 48 Cong., 1st sess., H. mis., v. 2.

Second, for the year 1885. Cl. 1886. 662 pp. Index. AG. 31 : 885 xi pls., i map.

Also in 48 Cong., 2d sess., H. mis., v. 2.

Third, for the year 1886. Cl. 1887. 456 pp. Index. AG. 31 : 886 xvii pls.

Also in 49 Cong., 2d sess., H. mis., v. 6.

Fourth and fifth, for the years 1887-88. Cl. 1889. 510 pp. AG. 31 : 887 Index. xxv pls.

Also in 50 Cong., 2d sess., H. mis., v. 12.

Sixth and seventh, for the years 1889-90. Cl. 1891. 503 pp. Index. AG. 31 : 889

Also in 51 Cong., 1st sess., H. mis., v. 42.

Eighth and ninth, for the years 1891-92. Cl. 1893. 428 pp. AG. 31 : 891 Index. xi pls., vii figs.

Also in 52 Cong., 2d sess., H. mis., v. 29.

Tenth and eleventh, *in press*.

The annual reports of the Bureau of Animal Industry include the reports of the Chief, and special reports prepared during the year.

## SPECIAL REPORTS.

- Carman, E. A., and others. Special report on the history and present condition of the sheep industry of the United States. Dec., 1892. Cl. 1,000 pp., xevi pls. AG. 311 : 1
- Contagious diseases of domesticated animals for 1883-84. 1884. 368 pp. Index. xiv pls., i map. AG. 311 : 2
- Curtice, C. Animal parasites of sheep. Cl. 1890. 222 pp., xxxvi pls. AG. 311 : 3
- [Salmon, D. E.] Hog cholera: its history, nature, and treatment. Cl. Apr., 1889. 197 pp. Index. xvi pls. AG. 311 : 4
- Maps showing the boundary line of the district infected with splenic, or Southern fever of cattle. Uniform size, 17 by 36 inches. 1891-1894. AG. 311 : 5
- Same*, 17 by 46, Feb. 5, 1895.
- Michener, C. B., and others. Special report on diseases of the horse. Cl. 1890. 560 pp. xlv pls. 2d ed., 1895. AG. 311 : 6
- Also in 51 Cong., 2d sess., H. mis., v. 12.
- Murray, A. J., and others. Special report on diseases of cattle and on cattle feeding. Cl. Dec., 1892. 496 pp., xlv pls. AG. 311 : 7
- Also in 52 Cong., 2d sess., H. mis. v. 16.
- Proceedings of an interstate convention of cattlemen at Fort Worth, Tex., Mar., 1890. May, 1890. 102 pp. AG. 311 : 8
- Report of the United States Board of Inquiry concerning epizootic diseases among swine. 15 pp. Aug., 1889. AG. 311 : 9
- Salmon, D. E. Report on inoculation as a preventive of swine diseases. Mar., 1890. 10 pp. AG. 311 : 10
- Same*, report on the beef supply of the United States, and the export trade in animals and animal products. Mar., 1890. 15 pp. AG. 311 : 11
- Both of the above are reprinted from the reports of the Secretary of Agriculture for 1889.
- Smith, T. Special report on the cause and prevention of swine plague. Cl. Sept., 1891. 166 pp., xii pls. AG. 311 : 12

## BULLETINS.

- No. 1. Smith, T., and F. L. Kilborne. Investigations into the nature, causation, and prevention of Texas, or Southern, cattle fever. Mar., 1893. 301 pp., x pls., vii figs. AG. 312 : 1
- No. 2. Salmon, D. E. Investigations relating to the treatment of lumpy-jaw, or actinomycosis, in cattle. Feb., 1893. 90 pp., viii pls. AG. 312 : 2
- No. 3. Special report on miscellaneous investigations concerning infectious and parasitic diseases of domesticated animals. Nov., 1893. 88 pp., iii pls. AG. 312 : 3
- No. 4. Stiles, C. W., and A. Hassal. A revision of the adult cestodes of cattle, sheep, and allied animals. Jan., 1894. 134 pp., xvi pls. AG. 312 : 4

- No. 5. Georgeson, C. C. Report on the dairy industry of Denmark. Jan., 1894. 133 pp., xxxiii figs. AG. 312 : 5  
 A progress report of this material appears in the special reports (unnumbered) for 1893 of the Secretary of Agriculture.
- No. 6. Smith, T., and V. A. Moore. Additional investigations concerning infectious swine diseases. Apr., 1894. 117 pp. AG. 312 : 6
- No. 7. Investigations concerning bovine tuberculosis, with special reference to diagnosis and prevention. Sept., 1894. 178 pp., vi pls. AG. 312 : 7

## CIRCULARS.

- No. 1. Simple directions for the sterilization of milk, furnished at the request of the Secretary of Agriculture by the Chief of the Bureau of Animal Industry. Dec. 19, 1893. 1 p. AG. 313 : 1  
 This sheet is neither numbered nor labeled as a Bureau of Animal Industry publication, but is adopted at the Department of Agriculture as Circular No. 1.
- No. 2. Salmon, D. E. Wheat as a food for growing and fattening animals. n. d. 4 pp. AG. 313 : 2

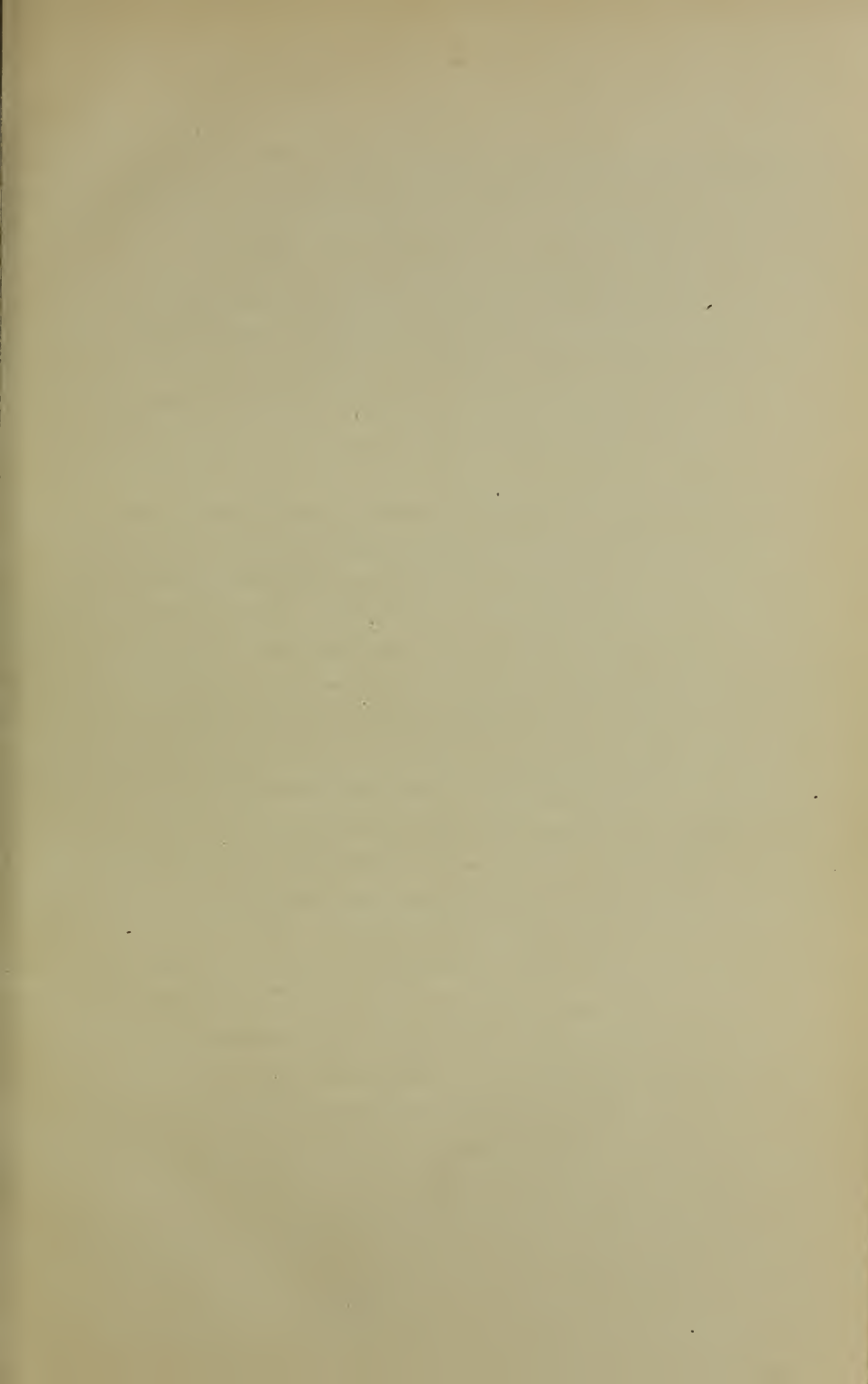
## DIVISION OF BOTANY.

[The Division of Botany was organized March, 1869, with C. C. Parry chief botanist. The annual reports of the chief of this division are bound with those of the Secretary of Agriculture, and for some years have been published in independent pamphlet form. In binding a file of these reports, bind as many pamphlets as will make a convenient volume, and let the classification number be that of the division (i. e., AG. 32:), followed by the appropriate annual numbers, e. g., AG. 32:890-94.]

## ANNUAL REPORTS.

1869. [C. C. Parry, Chief], in Annual Report Commissioner of Agriculture for 1869, pp. 91-97.
1870. *Same*, in Annual Report Commissioner of Agriculture for 1870, pp. 108-113.
1871. *Same*, none printed.
1872. [George Vasey, Chief], in Annual Report Commissioner of Agriculture for 1872, pp. 159-179.
1873. *Same*, none printed.
1874. *Same*, in Annual Report Commissioner of Agriculture for 1874, pp. 156-160.
1875. *Same*, none printed.
1876. *Same*, in Annual Report Commissioner of Agriculture for 1876, pp. 73, 74.
1877. *Same*, none printed.
1878. *Same*, in Annual Report Commissioner of Agriculture for 1878, pp. 157-194.
1879. *Same*, in Annual Report Commissioner of Agriculture for 1879, pp. 349-359.
1880. *Same*, in Annual Report Commissioner of Agriculture for 1880, pp. 375-386.
- 1881-82. *Same*, in Annual Report Commissioner of Agriculture for 1881-82, pp. 231-255.







1883. [George Vasey, Chief], in Annual Report Commissioner of Agriculture for 1883, pp. 83-98.  
 1884. *Same*, in Annual Report Commissioner of Agriculture for 1884, pp. 123-136.  
 1885. *Same*, in Annual Report Commissioner of Agriculture for 1885, pp. 63-88.  
 1886. *Same*, none printed.  
 1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 301-321, xvii pls.  
 1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 305-324, xiii pls.  
 1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 377-395, xi pls.  
 1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 375-391, viii pls.  
 1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 341-358, x pls.  
 1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 201-214, ix pls.  
 1893. [F. V. Coville, Chief], in Annual Report Secretary of Agriculture for 1893, pp. 235-244.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 161-166.

## CONTRIBUTIONS FROM THE UNITED STATES NATIONAL HERBARIUM.

- V. 1, No. 1. June, 1890. Pp. vii, 28. . . . . AG. 321, v. 1  
 No. 2. July, 1890. Pp. iii, 29-65.  
 No. 3. Nov., 1890. Pp. vi, 63-90, pl. i.  
 No. 4. July, 1891. Pp. vii, 91-127, pls. ii-xi.  
 No. 5. Sept., 1892. Pp. x, 129-188, pls. xii-xvi.  
 No. 6. Dec., 1892. Pp. ix, 189-232, pls. xvii, xviii.  
 No. 7. July, 1893. Pp. iii, 233-263, iii.  
 No. 8. Oct. 1893. Pp. iii, 265-292, ii, pls. xix-xxiii.  
 V. 2, No. 1. June, 1891. Pp. v, 152, iv, pl. i. . . . . AG. 321, v. 2  
 No. 2. June, 1892. Pp. x, 153-345, pls. ii-iii.  
 V. 3, No. 1. Feb., 1892. Pp. xiv, 89 . . . . . AG. 321, v. 3  
 V. 4. Coville, F. V. Botany of the Death Valley expedition. Nov., 1893. Pp. viii, 363, xxi pls., i map.

## BULLETINS.

- No. 1. Vasey, G. Investigations of the grasses of the arid districts of Kansas, Nebraska, and Colorado. 1886. 18 pp., xiii pls. AG. 322 : 1  
 No. 2. Scribner, F. L. Report on fungous diseases of the grapevine. (Section of Plant Pathology.) 1886. 136 pp. App. A, B, C. vii col. pls. Index. AG. 322 : 2  
 No. 3. Vasey, G. Grasses of the South. 1887. 63 pp., xvi pls. Index. AG. 322 : 3  
 No. 4. Desiderata of the herbarium for North America north of Mexico. Ranunculaceæ to Rosaceæ, inclusive. 1887. 15 pp. AG. 322 : 4

Distributed among botanists with the purpose of obtaining specimens.

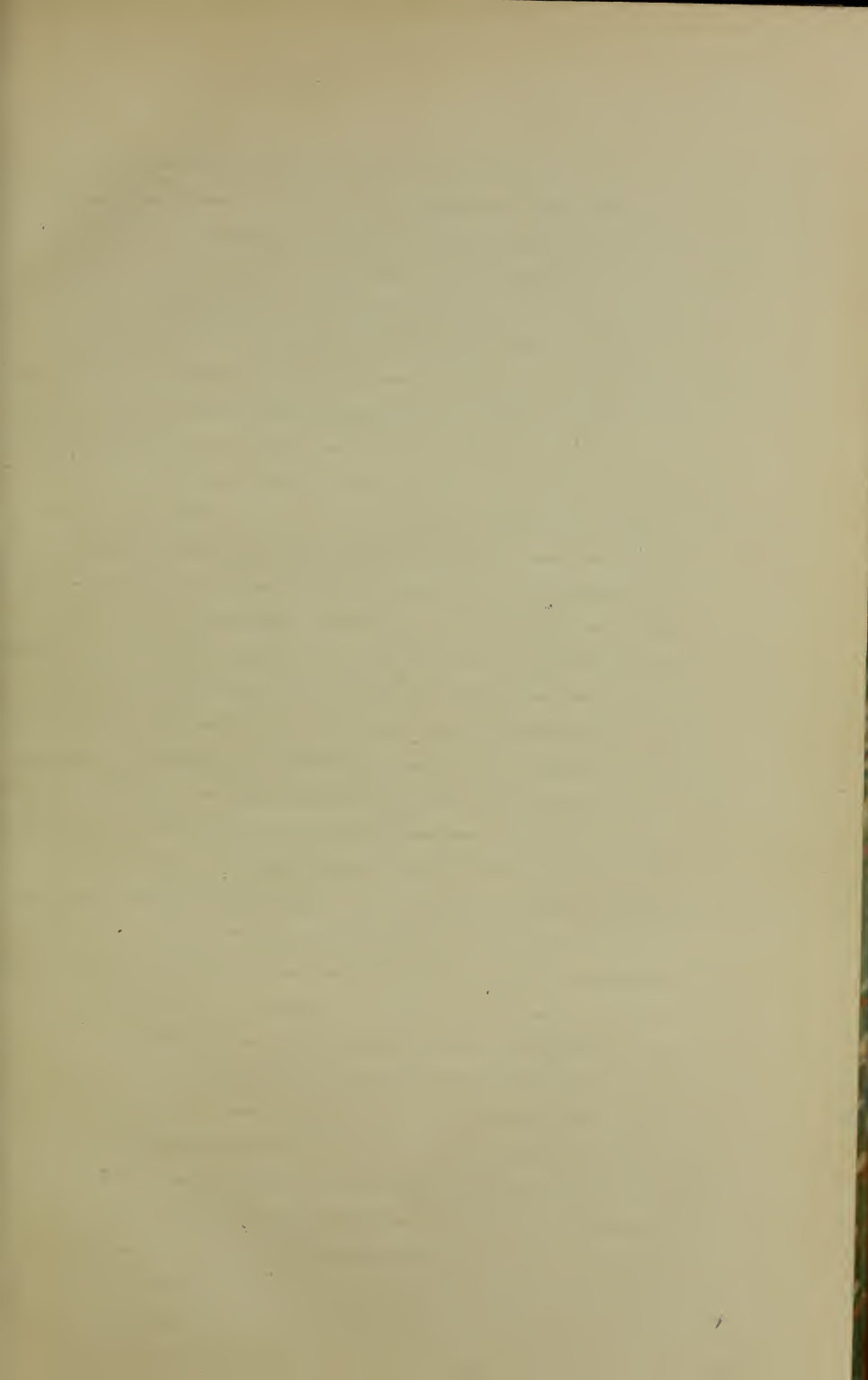
- No. 5. Scribner, F. L. Report on the experiments made in 1887 in the treatment of downy mildew and black rot of the grapevine. 1888. 114 pp. (Section of Vegetable Pathology.) AG. 322 : 5
- No. 6. Grasses of the arid districts of Texas, by G. C. Neally; of New Mexico, Arizona, Nevada, and Utah, by S. M. Tracy. 1887. 60 pp., xxx pls. AG. 322 : 6
- No. 7. Scribner, F. L., and P. Viala. Black rot (*Laestodia bidwellii*). 1888. 29 pp. (Section of Vegetable Pathology.) AG. 322 : 7
- No. 8. Vasey, G., and B. T. Galloway. Record of some of the work of the division. Feb., 1889. 67 pp. AG. 322 : 8
- No. 9. Smith, E. F. Peach yellows: a preliminary report. Mar., 1889. 254 pp., xxxvii pls., viii maps. Index. (Section of Vegetable Pathology.) AG. 322 : 9
- No. 10. Report on the experiments made in 1888 in the treatment of the downy mildew and black rot of the grapevine. May, 1889. 61 pp., ii pls. Index. (Section of Vegetable Pathology.) AG. 322 : 10
- No. 11. Galloway, B. T. Report on the experiments made in 1889 in the treatment of fungous diseases of plants. May, 1890. 119 pp., viii pls. (Section of Vegetable Pathology.) AG. 322 : 11
- No. 12. Vasey, G. Grasses of the Southwest. In 2 pts. Pt. 1 issued Oct., 1890; pt. 2, Dec., 1891. 4°. AG. 322 : 12
- No. 13. Vasey, G. Grasses of the Pacific Slope, including Alaska and the adjacent islands. In 2 pts. Pt. 1 issued Oct., 1892; pt. 2, May, 1893. 4°. AG. 322 : 13
- No. 14. Hale, E. M. *Ilex cassine*, the aboriginal American tea: its history, distribution, and use among the North American Indians. Nov., 1891. 22 pp., i pl., i fig. AG. 322 : 14
- No. 15. Dewey, L. H. The Russian thistle: its history as a weed in the United States; with an account of the means available for its eradication. 26 pp., iii pls., ii maps. AG. 322 : 15
- No. 16. Nash, G. V. American ginseng: its commercial history, protection, and cultivation. Feb., 1895. 22 pp., ii figs. AG. 322 : 16

## SPECIAL REPORTS.

- Report of grass and forage experiment stations in the South and West. Grass and forage experiment stations at Garden City, Kans., by Dr. J. A. Sewall, and cooperative branch stations in the South, by S. M. Tracy. (Reprinted from the report of the Botanist for 1891.) May, 1892. 12 pp. AG. 323 : 1
- Vasey, G. The agricultural grasses and forage plants of the United States; also the chemical composition of grasses, by C. Richardson. Jan., 1884. 144 pp., cxx pls. AG. 323 : 2
- Same*, revised and enlarged. 1889. 148 pp., cxiv pls.

## CIRCULARS.

- No. 1. Hungarian brome grass. May 23, 1894. 4 pp. .... AG. 324 : 1
- No. 2. Nut grass. Oct. 16, 1894. 4 pp. .... AG. 324 : 2
- No. 3. The Russian thistle. Jan., 1895. 8 pp., iii figs. .... AG. 324 : 3
- No. 4. The flat pea. Mar., 1895. 7 pp., ii figs. .... AG. 324 : 4
- No. 5. Giant knotweed, or sachaline. Mar., 1895. 4 pp., iii figs. AG. 324 : 5







## DIVISION OF CHEMISTRY.

## ANNUAL REPORTS.

[The Division of Chemistry was established August 21, 1862, by the appointment of Charles M. Wetherill as chemist. The annual reports of the Chief are found with those of the Secretary of Agriculture, and they are also issued in independent pamphlet form, known as author's editions. In binding a separate file of the annual reports of the Chief of this Division, bind as many pamphlets as will make a convenient volume, and let the notation be simply the number of this Division (i. e., AG. 33:), followed by annual numbers, i. e., AG. 33:881-5.]

- 1862. [Charles M. Wetherill, Chief], in Annual Report Commissioner of Agriculture for 1862, pp. 508-540.
- 1863. [H. Erni, Chief.] None printed.
- 1864. *Same*, in Annual Report Commissioner of Agriculture for 1864, pp. 514-540.
- 1865. *Same*, in Annual Report Commissioner of Agriculture for 1865, pp. 46-54.
- 1866. [Thomas Antisell, Chief], in Annual Report Commissioner of Agriculture for 1866, pp. 45-51.
- 1867. *Same*, in Annual Report Commissioner of Agriculture for 1867, pp. 31-57.
- 1868. *Same*, in Annual Report Commissioner of Agriculture for 1868, pp. 59-77.
- 1869. *Same*, in Annual Report Commissioner of Agriculture for 1869, pp. 65-79.
- 1870. [R. T. Brown, Chief], in Annual Report Commissioner of Agriculture for 1870, pp. 91-107.
- 1871. *Same*, in Annual Report Commissioner of Agriculture for 1871, pp. 89-101.
- 1872. *Same*, in Annual Report Commissioner of Agriculture for 1872, pp. 138-158.
- 1873. [William McMurtrie, Chief], in Annual Report Commissioner of Agriculture for 1873, pp. 170-183.
- 1874. *Same*, in Annual Report Commissioner of Agriculture for 1874, pp. 147-155.
- 1875. *Same*, in Annual Report Commissioner of Agriculture for 1875, pp. 141-151.
- 1876. *Same*, in Annual Report Commissioner of Agriculture for 1876, pp. 46-61.
- 1877. *Same*, in Annual Report Commissioner of Agriculture for 1877, pp. 65-89.
- 1878. [Peter Collier, Chief], in Annual Report Commissioner of Agriculture for 1878, pp. 95-156.
- 1879. *Same*, in Annual Report Commissioner of Agriculture for 1879, pp. 35-127.
- 1880. *Same*, in Annual Report Commissioner of Agriculture for 1880, pp. 37-184.
- 1881-82. *Same*, in Annual Report Commissioner of Agriculture for 1881-82, pp. 379-576.
- 1883. *Same*, in Annual Report Commissioner of Agriculture for 1883, pp. 197-250.
- 1884. [H. W. Wiley, Chief], in Annual Report Commissioner of Agriculture for 1884, pp. 19-122.

1885. [H. W. Wiley, Chief], in Annual Report Commissioner of Agriculture for 1885, pp. 109-182.  
 1886. *Same*, in Annual Report Commissioner of Agriculture for 1886, pp. 277-358.  
 1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 181-300.  
 1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 221-304.  
 1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 135-191.  
 1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 133-192.  
 1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 143-190.  
 1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 123-152.  
 1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 169-198.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 151-155.

## BULLETINS.

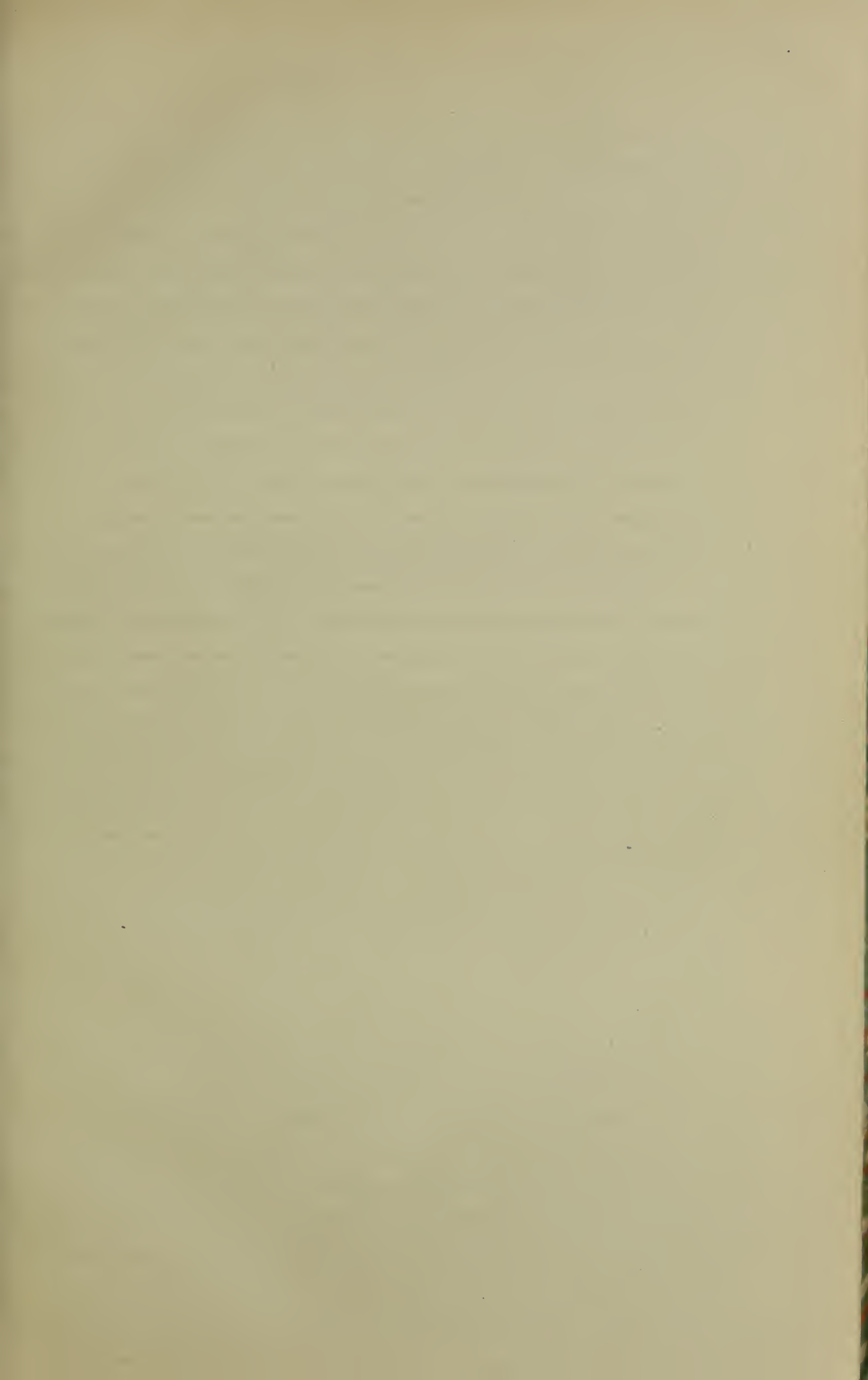
- No. 1. Richardson, C. Investigation of the composition of American wheat and corn. 1st report. 1883. 69 pp. AG. 331 : 1  
 See also Nos. 4 and 9 below.
- No. 2. Wiley, H. W. Diffusion, its application to sugar cane, and record of experiments with sorghum in 1883. 1884. 36 pp. AG. 331 : 2
- No. 3. *Same*. Northern sugar industry. A record of progress during season of 1883. 1884. 118 pp. AG. 331 : 3
- No. 4. Richardson, C. Investigation of the composition of American wheat and corn. 2d report. 1884. 98 pp. AG. 331 : 4  
 See also No. 1 above and No. 9 below.
- No. 5. Wiley, H. W. Sugar industry of the United States. 1885. 224 pp. AG. 331 : 5
- No. 6. *Same*. Experiments with diffusion and carbonation at Ottawa, Kans. 1885. 20 pp. AG. 331 : 6
- No. 7. Methods of analysis of commercial fertilizers. 1885. 49 pp. AG. 331 : 7
- No. 8. Wiley, H. W. Methods and machinery for the application of diffusion to the extraction of sugar from sugar cane and sorghum. 1886. 85 pp. AG. 331 : 8
- No. 9. Richardson, C. Third report on the chemical composition and physical properties of American cereals. 1886. 82 pp. AG. 331 : 9  
 See also Nos. 1 and 4 above.
- No. 10. Richards, E. Principles and methods of soil analysis. 1886. 66 pp. AG. 331 : 10
- No. 11. Spencer, G. L. Report of experiments in the manufacture of sugar at Magnolia Station, Lawrence, La. 1886. 26 pp. AG. 331 : 11
- No. 12. Methods of analysis of commercial fertilizers. 1886. 59 pp. AG. 331 : 12

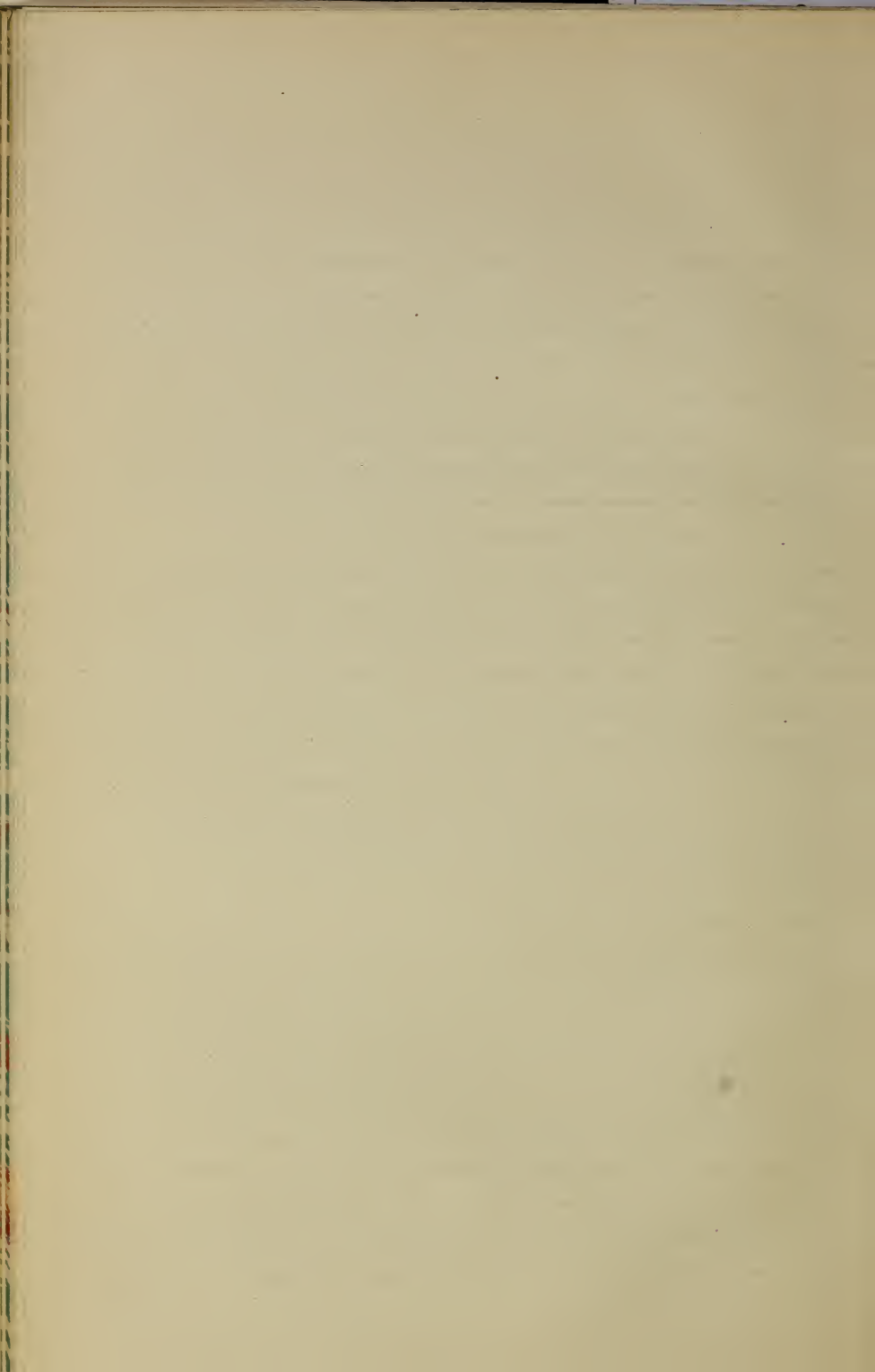
- No. 13. Food and food adulterants. In 8 pts. . . . . AG. 33 : 13  
 Pt. 1.—Wiley, H. W. Dairy products. 1887. Pp. 1-128, xii pls. AG. 33 : 131  
 Pt. 2.—Richardson, C. Spices and condiments. 1887. Pp. 129-259, pls. xiii-xviii . . . . . AG. 33 : 132  
 Pt. 3.—Crampton, C. A. Fermented alcoholic beverages, malt liquors, wine, and cider. 1887. Pp. 261-399 . . . . . AG. 33 : 133  
 Pt. 4.—Wiley, H. W. Lard and lard adulterants. Pp. 403-554, pls. xxix-xxxviii, figs. xvi-xxv. June, 1889 . . . . . AG. 33 : 134  
 Pt. 5.—Crampton, C. A. Baking powders. 1889. Pp. 557-627, figs. xvi. Oct., 1889 . . . . . AG. 33 : 135  
 Pt. 6.—Wiley, H. W., and others. Sugar, molasses, and sirup; confections, honey, and beeswax. Pp. 633-874-ix. Apr., 1892 . . . . . AG. 33 : 136  
 Pt. 7.—Spencer, G. L. Tea, coffee, and cocoa preparations. Pp. 875-1012-vi, pls. xxxix-xlvi. June, 1892 . . . . . AG. 33 : 137  
 Pt. 8.—McElroy, K. P. Canned vegetables. Pp. 1015-1167-xii. Aug., 1893 . . . . . AG. 33 : 138
- No. 14. Wiley, H. W. Record of experiments at Fort AG. 331 : 14  
 Scott, Kans., in the manufacture of sugar from sorghum and sugar canes in 1886. 1887. 64 pp.
- No. 15. Spencer, G. L. Experiments in the manufacture AG. 331 : 15  
 of sugar at Magnolia Station, Lawrence, La., 1886-87. 3d report. 1887. 35 pp.  
 See also No. 11 above and No. 21 below.
- No. 16. Methods of analysis of commercial fertilizers, feed- AG. 331 : 16  
 ing stuffs, and dairy products. 1887. 80 pp.
- No. 17. Wiley, H. W. Record of experiments in the manu- AG. 331 : 17  
 facture of sugar from sorghum and sugar canes at Fort Scott, Rio Grande, and Lawrence, 1887-88. 1888. 118 pp.
- No. 18. *Same.* Sugar-producing plants. Records of analy- AG. 331 : 18  
 ses made in 1887-88. 1888. 132 pp.
- No. 19. Methods of analysis of commercial fertilizers, cattle AG. 331 : 19  
 foods, dairy products, sugar, and fermented liquors. 1888. 94 pp.
- No. 20. Wiley, H. W. Record of experiments in the manu- AG. 331 : 20  
 facture of sugar from sorghum at Rio Grande, N. J.; Kenner, La.; Conway Springs, Douglass, and Sterling, Kans. 1889. 162 pp.
- No. 21. Spencer, G. L. Report of experiments in the manu- AG. 331 : 21  
 facture of sugar by diffusion at Magnolia Station, La., season of 1888-89. 1889. 67 pp.  
 See also Nos. 11 and 15 above.
- No. 22. Crampton, C. A. Record of experiments at Des AG. 331 : 22  
 Lignes sugar-experiment station, Baldwin, La., during 1888. 1889. 36 pp.
- No. 23. Edson, H. Records of experiments at the sugar- AG. 331 : 23  
 experiment station on Calumet Plantation, Pattersonville, La., 1888. 1889. 42 pp.
- No. 24. Wiley, H. W. (ed.). Proceedings of the sixth AG. 331 : 24  
 annual convention of the Association of Official Agricultural Chemists, at Washington, Sept. 10-12, 1889. Methods of analysis of commercial fertilizers, etc. 1890. 235 pp.
- No. 25. Wedderburn, A. J. Popular treatise on the extent AG. 331 : 25  
 and character of food adulterations. 1890. 61 pp.



- No. 26. Wiley, H. W. Record of experiments in the pro- AG. 331 : 26  
duction of sugar from sorghum in 1889, at Cedar Falls,  
Iowa; Rio Grande, N. J.; Morrisville, Va.; Kenner,  
La., etc. 1890. 112 pp.
- No. 27. *Same*. The sugar-beet industry. Culture of the AG. 331 : 27  
sugar beet, and manufacture of beet sugar. 1890.  
262 pp., xi pls., xlix figs.
- No. 28. Wiley, H. W. (ed.). Proceedings of the seventh AG. 331 : 28  
annual convention of the Association of Official Agri-  
cultural Chemists, held at United States National  
Museum, Washington, Aug. 28-30, 1890. Methods of  
analysis of commercial fertilizers, foods, and feeding  
stuffs, dairy products, fermented liquors, and sugars.  
Mar., 1891. 238 pp.
- No. 29. *Same*. Record of experiments with sorghum in AG. 331 : 29  
1890. May, 1891. 126 pp.
- No. 30. *Same*. Experiments with sugar beets in 1890. AG. 331 : 30  
May, 1891. 94 pp.
- No. 31. *Same*. Proceedings of the eighth annual conven- AG. 331 : 31  
tion of the Association of Official Agricultural Chem-  
ists, held at the Columbian University, Washington,  
D. C., Aug. 13-15, 1891. Feb., 1892. 253 pp.
- No. 32. Wedderburn, A. J. Special report on the extent AG. 331 : 32  
and character of food adulterations, including State  
and other laws relating to foods and beverages. Apr.,  
1892. 174 pp.
- No. 33. Wiley, H. W., and others. Experiments with sugar AG. 331 : 33  
beets in 1891. June, 1892. 158 pp.
- No. 34. *Same*. Experiments with sorghum in 1891. June, AG. 331 : 34  
1892. 132 pp.
- No. 35. Wiley, H. W., ed. Proceedings of the ninth AG. 331 : 35  
annual convention of the Association of Official Agri-  
cultural Chemists, held at the National Museum, Wash-  
ington, D. C., Aug. 25-27, 1892. Dec., 1892. 243 pp.
- No. 36. *Same*, and W. Maxwell. Experiments with sugar AG. 331 : 36  
beets in 1892. Mar., 1893. 74 pp.
- No. 37. *Same*, and others. Experiments with sorghum in AG. 331 : 37  
1892. Apr., 1893. 100 pp.
- No. 38. *Same*, ed. Proceedings of the tenth annual con- AG. 331 : 38  
vention of the Association of Official Agricultural  
Chemists, held at Chicago, Ill., Aug. 24-26, 1893. Dec.,  
1893. 218 pp.
- No. 39. *Same*, and W. Maxwell. Experiments with sugar AG. 331 : 39  
beets in 1893. 1893. 59 pp.
- No. 40. *Same*. Experiments with sorghum in 1893. 1894. AG. 331 : 40  
38 pp.
- No. 41. Wedderburn, A. J. Report on the extent and char- AG. 331 : 41  
acter of food and drug adulteration. 1894. 64 pp.
- No. 42. *Same*. A compilation of the pharmacy and drug AG. 331 : 42  
laws of the several States and Territories. 1894.  
152 pp.
- No. 43. Proceedings of the eleventh annual convention of AG. 331 : 43  
the Association of Official Agricultural Chemists, held  
at Washington, D. C., Aug. 23-25, 1894. 1894. 403 pp.
- No. 44. Sweet cassava: its culture, properties, and uses. AG. 331 : 44  
16 pp., ii pls., i fig. Jan., 1895.







## DOCUMENT AND FOLDING ROOM.

## ANNUAL REPORTS.

1890. [A. T. Longley, Superintendent], in Annual Report Secretary of Agriculture for 1890, pp. 449-450.  
 1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 499-501.  
 1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 509-512.  
 1893. [Will H. Bane, Superintendent], in Annual Report Secretary of Agriculture for 1893, pp. 409, 410.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, p. 215.

## DIVISION OF ENTOMOLOGY.

[The Division of Entomology was established in 1863, by the appointment of Townend Glover as Entomologist.

The annual reports of the Chief are bound with those of the Secretary of Agriculture, and for some years they have also been issued in an independent pamphlet form known as author's editions.

In binding a separate file of the annual reports of the chief of this Division, bind as many pamphlets as will make a convenient volume, and let the classification number be the number of this Division (i. e., AG. 34:), followed by the annual numbers, thus: AG. 34: 891-95.]

## ANNUAL REPORTS.

1863. [Townend Glover, Chief], in Annual Report Commissioner of Agriculture for 1863, pp. 561-579.  
 1864. *Same*, in Annual Report Commissioner of Agriculture for 1864, pp. 540-564.  
 1865. *Same*, in Annual Report Commissioner of Agriculture for 1865, pp. 33-45.  
 1866. *Same*, none printed.  
 1867. *Same*, in Annual Report Commissioner of Agriculture for 1867, pp. 58-76.  
 1868. *Same*, in Annual Report Commissioner of Agriculture for 1868, pp. 78-117.  
 1869. *Same*, in Annual Report Commissioner of Agriculture for 1869, pp. 60-64.  
 1870. *Same*, in Annual Report Commissioner of Agriculture for 1870, pp. 65-91.  
 1871. *Same*, in Annual Report Commissioner of Agriculture for 1871, pp. 69-88.  
 1872. *Same*, in Annual Report Commissioner of Agriculture for 1872, pp. 112-138.  
 1873. *Same*, in Annual Report Commissioner of Agriculture for 1873, pp. 152-169.  
 1874. *Same*, in Annual Report Commissioner of Agriculture for 1874, pp. 122-146.  
 1875. *Same*, in Annual Report Commissioner of Agriculture for 1875, pp. 114-140.  
 1876. *Same*, in Annual Report Commissioner of Agriculture for 1876, pp. 17-46.  
 1877. *Same*, in Annual Report Commissioner of Agriculture for 1877, pp. 89-148.

1878. [Charles V. Riley, Chief], in Annual Report Commissioner of Agriculture for 1878, pp. 207-259.
1879. *Same*, in Annual Report Commissioner of Agriculture for 1879, pp. 185-349.
1880. *Same*, in Annual Report Commissioner of Agriculture for 1880, pp. 235-373.
- 1881-82. *Same*, in Annual Report Commissioner of Agriculture for 1881-82, pp. 61-214.
1883. *Same*, in Annual Report Commissioner of Agriculture for 1883, pp. 99-180.
1884. *Same*, in Annual Report Commissioner of Agriculture for 1884, pp. 285-418.
1885. *Same*, in Annual Report Commissioner of Agriculture for 1885, pp. 207-343, ix pls.
1886. *Same*, in Annual Report Commissioner of Agriculture for 1886, pp. 459-592, xi pls.
1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 48-178, viii pls.
1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 53-144, xii pls.
1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 331-360, vi pls.
1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 237-264, vii pls.
1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 231-266.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 153-180, xii pls.
1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 199-226, iv pls.
1894. [L. O. Howard, Chief], in Annual Report Secretary of Agriculture for 1894, pp. 157-159.

## UNITED STATES ENTOMOLOGICAL COMMISSION.

[The third annual report of this Commission inaugurated its transfer from the Department of the Interior to the Department of Agriculture.]

First report, 1878. Riley, Charles V., and others. The Rocky Mountain locust, or the destructive grasshopper of the West. 700 pp. AG. 341 : 1

At this time the Commission was attached to the United States Geological and Geographical Survey of the Territories, Department of the Interior.

Second report, 1880. *Same*; and, treating of the best means of subduing the locust in its permanent breeding grounds, with a view of preventing its migrations into the more fertile portions of the transmississippi country. 320 pp., maps, and ill. AG. 341 : 2

Third report, 1883. *Same*; and, the army worm, canker worms, and the Hessian fly; together with descriptions of larvæ of injurious forest insects, studies of the embryological development of the locust, and of other insects, and on the systematic position of the Orthoptera in relation to other orders of insects. 347 pp., maps, pls., and ills. AG. 341 : 3

- Fourth report, 1885. Riley, C. V. Being the second revised edition of Bulletin No. 3 of the United States Entomological Commission; and, the final report on the cotton worm, together with a chapter on the bollworm. 399 pp., maps, pls., and ills. AG. 341 : 4
- Fifth report, 1891. Packard, A. S. Being a revised edition of Bulletin No. 7, on insects injurious to forest and shade trees. 957 pp., maps, pls., and ills. AG. 341 : 5
- Also in 51 Cong., 1st sess., H. mis. doc. No. 269.

## BULLETINS.

- No. 1. Reports of experiments, chiefly with kerosene, upon the insects injuriously affecting the orange tree and the cotton plant. 1883. 62 pp. Index. AG. 342 : 1
- No. 2. Reports of operations on the Rocky Mountain locust and the chinch bug, together with extracts from the correspondence of the division on miscellaneous insects. 1883. 36 pp. Index. AG. 342 : 2
- No. 3. Reports of observations and experiments in the practical work of the division, made under direction of the Entomologist, 1883. 71 pp., iii pls. AG. 342 : 3
- No. 4. *Same*, 1884. 102 pp. Index. AG. 342 : 4
- No. 5. Howard, L. O. Descriptions of North American Chalcididae from the collections of the United States Department of Agriculture and of Dr. C. V. Riley; with biological notes (first paper), together with a list of the described North American species of the family. 1885. 47 pp. AG. 342 : 5
- No. 6. Riley, C. V. The imported elm-leaf beetle. Its habits and natural history, and means of counteracting its injuries. 1891. 2d ed. 18 pp., i pl. AG. 342 : 6
- No. 7. Osborn, H. The Pediculi and Mallophaga affecting man and the lower animals. 1891. 56 pp. AG. 342 : 7
- No. 8. Riley, C. V. The periodical Cicada. An account of Cicada septendecim, and its tredecim race, with a chronology of all broods known. 1885. 2d ed. 46 pp. AG. 342 : 8
- No. 9. *Same*. The mulberry silkworm, being a manual of instructions in silk culture. 7th rev. ed. 1888. 65 pp., ii pls. Index. AG. 342 : 9
- No. 10. *Same*. Our shade trees and their insect defoliators, being a consideration of the four most injurious species which affect the trees of the capital. 1887. Ill., i pl. Index. AG. 342 : 10
- No. 11. Reports of experiments with various insecticide substances, chiefly upon insects affecting garden crops. 1886. 34 pp. AG. 342 : 11
- No. 12. Miscellaneous notes on the work of the Division of Entomology for the season of 1885. 1886. 46 pp., i pl. AG. 342 : 12
- No. 13. Observations and experiments in the practical work of the division. 1887. 75 pp. Index. AG. 342 : 13
- This bulletin comprises such of the reports of the agents of the division for the season of 1886 as were necessarily excluded from the annual report for lack of space.
- No. 14. *Same*. 1887. 62 pp. Index. AG. 342 : 14
- This bulletin contains certain reports of agents and other matter additional to that contained in Bulletin No. 13.



- No. 15. The icerya, or fluted scale, otherwise known as the AG. 342 : 15  
cottony cushion scale. 1887. 40 pp.  
Reprint of some recent articles by the Entomologist, and of a  
report from the agricultural experiment station at the University  
of California.
- No. 16. Henshaw, S. The entomological writings of Dr. AG. 342 : 16  
A. S. Packard. 1887. 49 pp.
- No. 17. Howard, L. O. The chinch bug; a general sum- AG. 342 : 17  
mary of its history, habits, enemies, and of the remedies  
and preventives to be used against it. 1888. 48 pp.
- No. 18. Dodge, C. R. The life and entomological work of AG. 342 : 18  
Townend Glover. por. 1888. 68 pp., i pl.
- No. 19. An enumeration of the published synopses, cata- AG. 342 : 19  
logues, and lists of North American insects. 1888. 77  
pp.
- No. 20. Neal, J. C. The root-knot disease of the peach, AG. 342 : 20  
orange, and other plants in Florida due to the Anguil-  
lula. 1889. 31 pp., xxi pls.
- No. 21. Koebele, A. Report of a trip to Australia to inves- AG. 342 : 21  
tigate the natural enemies of the fluted scale. 1890.  
32 pp., ill.
- No. 22. Report of observations and experiments in the prac- AG. 342 : 22  
tical work of the division. 1890. 110 pp. Index.
- No. 23. Same. 1891. 83 pp. Index. . . . . AG. 342 : 23
- No. 24. Mally, F. W. The bollworm of cotton; a report AG. 342 : 24  
of progress in a supplementary investigation of this  
insect. 1891. 50 pp., i map.
- No. 25. Riley, C. V. Destructive locusts; a popular con- AG. 342 : 25  
sideration of a few of the more injurious locusts (or  
"grasshoppers") of the United States, together with  
the means of destroying them. 1891. 62 pp., xii pls.
- No. 26. Reports of observations and experiments in the AG. 342 : 26  
practical work of the division. 1892. 95 pp.
- No. 27. Reports on the damage by destructive locusts AG. 342 : 27  
during the season of 1891. 1892. 64 pp.
- No. 28. Bruner, L. The more destructive locusts of AG. 342 : 28  
America north of Mexico. 1893. 40 pp., ill.
- No. 29. Mally, F. W. Report on the bollworm of cotton AG. 342 : 29  
(*Heliothis armiger* Hübn.). 1893. 73 pp., ii pls.
- No. 30. Reports of observations and experiments in the AG. 342 : 30  
practical work of the division. 1893. 67 pp. Index.
- No. 31. Catalogue of the exhibit of economic entomology AG. 342 : 31  
at the World's Columbian Exposition, Chicago, Ill.,  
1893. 1893. 121 pp.
- No. 32. Reports of observations and experiments in the AG. 342 : 32  
practical work of the division. 1894. 59 pp. Index.
- No. 33. Legislation against injurious insects; a compila- AG. 342 : 33  
tion of the laws and regulations in the United States  
and British Columbia. 46 pp. Mar., 1895.

## INSECT LIFE.

[A periodical devoted to the economy and life habits of insects,  
especially in their relation to agriculture, edited by Charles V.  
Riley and L. O. Howard, with the assistance of other members  
of the divisional force.]

- V. 1. Nos. 1-12. July, 1888-July, 1889. Pp. 1-388, figs. AG. 343 : 1  
lxxvi. Index.

- V. 2. Nos. 1-12. July, 1889-July, 1890. Pp. 1-390, figs. AG. 343 : 2  
lxxi. Index.
- V. 3. Nos. 1-12. Aug., 1890-Sept., 1891. Pp. 1-519, figs. AG. 343 : 3  
xxxv. Index.
- V. 4. Nos. 1-12. Oct., 1891-Aug., 1892. Pp. 1-441, figs. AG. 343 : 4  
lxxvii. Index.
- V. 5. Nos. 1-5. Sept., 1892-Aug., 1893. Pp. 1-402, figs. AG. 343 : 5  
xlvi. Index.
- V. 6. Nos. 1-5. Nov., 1893-Aug., 1894. Pp. 1-381, figs. AG. 343 : 6  
xxxi. Index.
- V. 7. Nos. 1-5. Sept., 1894-July, 1895. Pp. 1-430, figs. AG. 343 : 7  
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Discontinued with No. 5, July, 1895.

#### CIRCULARS (SECOND SERIES).

- No. 1. Condensed information concerning some of the more important insecticides. 7 pp. AG. 344 : 1
- No. 2. The hop-plant louse and the remedies to be used against it. 7 pp., v figs. AG. 344 : 2
- No. 3. Important enemy to fruit trees: the San Jose scale. Apr., 1894. 10 pp. AG. 344 : 3
- No. 4. Howard, L. O. The army worm (*Leucania unipuncta*, How.). July, 1894. 5 pp., iii figs. AG. 344 : 4
- No. 5. The carpet beetle, or "buffalo moth." Oct., 1894. 4 pp., i fig. AG. 344 : 5
- No. 6. The Mexican cotton-boll weevil. Apr., 1895. 5 pp. (Not numbered.) Riley, C. V. Relating to the periodical Cicada, or "seventeen and thirteen year locust." 4°. 2 pp. AG. 344 : 6
- No. 7. Marlatt, C. L. The pear-tree Psylla. May, 1895. 8 pp., vi figs. AG. 344 : 7
- No. 8. The imported elm leaf-beetle. June, 1895. 4 pp., i fig. AG. 344 : 8
- No. 9. Cankerworms. May, 1895. 4 pp. AG. 344 : 9
- No. 10. The harlequin cabbage bug or calicoback (*Murgantia histrionica*, Hahn). May, 1895. 2 pp. AG. 344 : 10
- No. 11. The rose-chaffer. May, 1895. 4 pp. AG. 344 : 11

#### SPECIAL REPORTS.

- Alwood, W. B. Report on experiments with remedies against the hop louse. (Reprinted from report of Entomologist, 1888. Pp. 102-111.) AG. 345 : 1
- Bruner, L. Report on Nebraska insects. (Reprinted from report of Entomologist, 1888. Pp. 139-141.) AG. 345 : 2
- Catalogue of the exhibit of economic entomology at the World's Industrial and Cotton Centennial Exposition at New Orleans, 1884-85. 1884. AG. 345 : 3
- Comstock, J. H. Report upon cotton insects, prepared under the direction of the Commissioner of Agriculture in pursuance of an act of Congress, approved June 19, 1878. 1879. 511 pp., ii pls. Index. AG. 345 : 13
- Coquillett, D. W. Report on various methods for destroying scale insects. (Reprinted from report of Entomologist, 1888. Pp. 123-133.) AG. 345 : 4

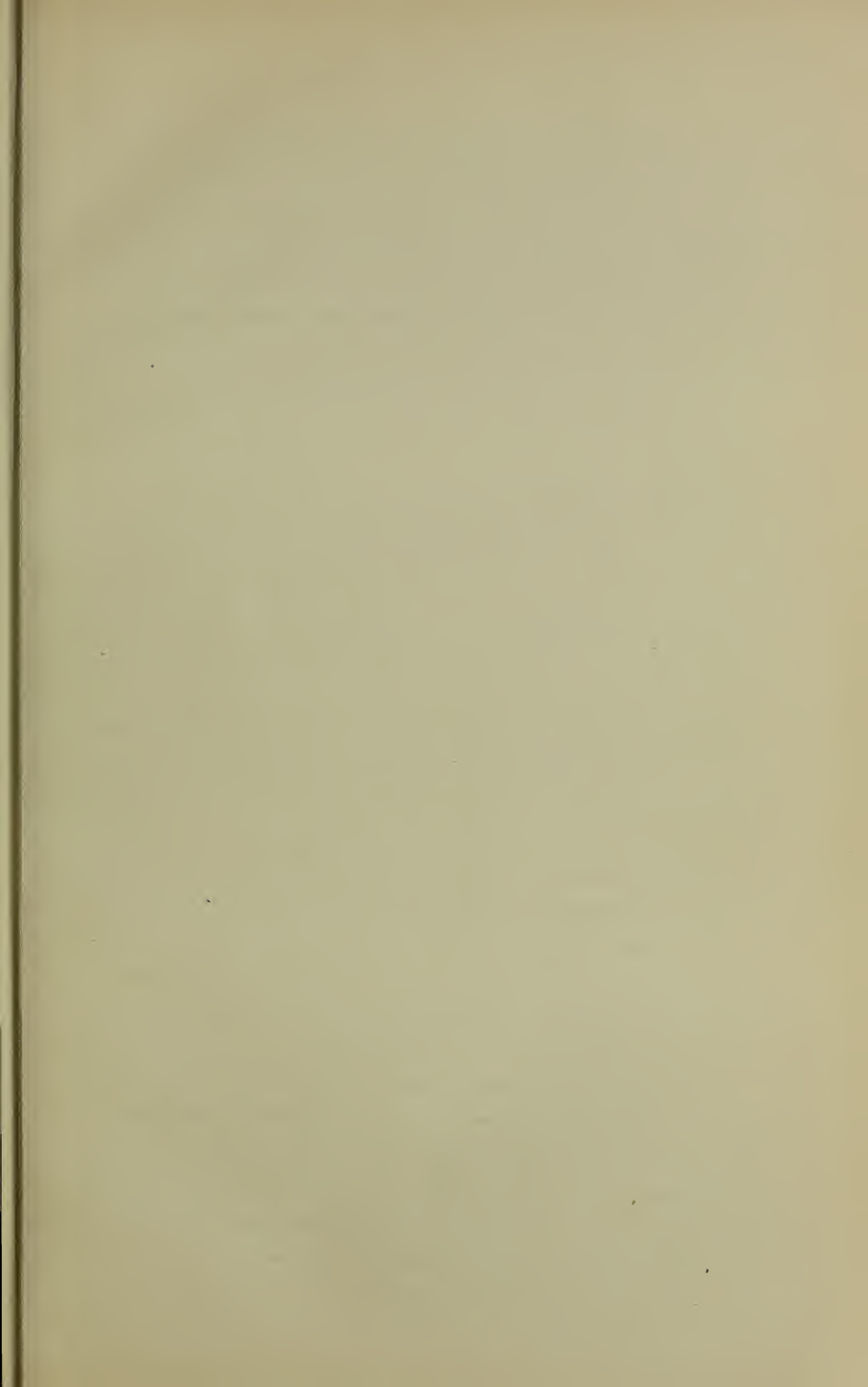
- Dugès, Dr. E. Description of *Leonia rileyi*, a new Meloïd genus near *Hornia*. (Extract from *Insect Life*, v. 1, No. 7. Pp. 211-213.) AG. 345 : 5
- Henshaw, S. Bibliography of the more important contributions to American economic entomology. 1890. In 4 parts. AG. 345 : 6
- Pt. 1.—The more important writings of Benjamin Dann Walsh. 49 pp.
- Pt. 2.—The more important joint writings of B. D. Walsh and C. V. Riley. Pp. 51-95.
- Pt. 3.—The more important writings of Charles Valentine Riley. Pp. 97-380. Index to parts 1, 2, 3. Pp. 381-454. Mar., 1890.
- Pt. 4.—The more important writings of Government and State entomologists and of other contributors to the literature of American economic entomology. A-K, 167 pp.
- Hubbard, H. G. Insects affecting the orange. 1885. 227 pp., xiv pls. Index. AG. 345 : 7
- Murtfeldt, M. E. Entomological notes of the season of 1888. (From the report of the Entomologist, 1888. Pp. 133-139.) AG. 345 : 8
- Riley, C. V. Insecticides and means of applying them to shade and forest trees. (Reprinted from Fifth Report Entomological Commission.) AG. 345 : 9
- Same*. The insectivorous habits of the English sparrow. (Reprinted from Bulletin No. 1 of the Division of Ornithology and Mammalogy.) AG. 345 : 10
- Same*. Insects affecting the hackberry. Various species of celtis. (Reprinted from Fifth Report Entomological Commission.) AG. 345 : 11
- Same*, and Howard, L. O. The plum curculio (*Conotrachelus nenuphar*, Herbst). (Reprinted from the report of the Entomologist for 1888.) Pp. 57-59. AG. 345 : 12

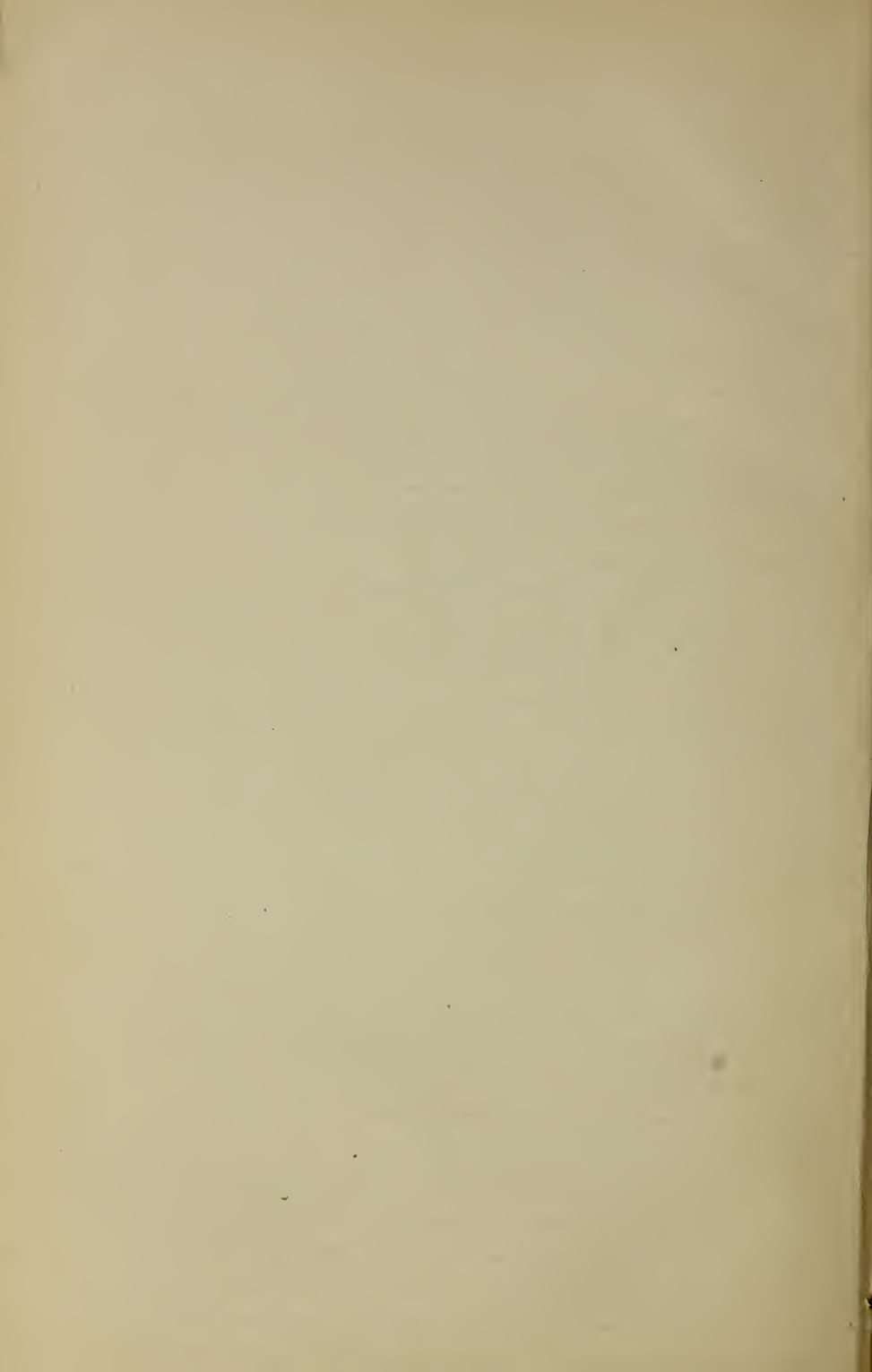
#### OFFICE OF EXPERIMENT STATIONS.

[The Office of Experiment Stations was organized October 1, 1888, with W. O. Atwater as Director. The annual reports of the Director are bound with those of the Secretary of Agriculture, and for some years they have also been issued in an independent pamphlet form known as author's editions. In binding a separate file of the annual reports of the Director of this Office, bind as many pamphlets as will make a convenient volume, and let the classification number be the number of the Office (i. e., AG. 35:), followed by the annual numbers, thus: AG. 35: 888-95.]

#### ANNUAL REPORTS.

1888. [W. O. Atwater, Director], in Annual Report of Commissioner of Agriculture for 1888, pp. 537-558.
1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 485-544.
1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 489-555, iii.
1891. [A. W. Harris, Director], in Annual Report Secretary of Agriculture for 1891, pp. 503-538, ii, i map.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 515-549.
1893. [A. C. True, Director], in Annual Report Secretary of Agriculture for 1893, pp. 417-464.
1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 123-131.







## EXPERIMENT STATION RECORD.

- V. 1, Nos. 1-6. Sept., 1889-July, 1890. iii, 358 pp. . . . . AG. 351, v. 1
- |                                 |                                 |
|---------------------------------|---------------------------------|
| No. 1. Sept., 1889. Pp. 1-56.   | No. 4. Mar., 1890. Pp. 175-243. |
| No. 2. Nov., 1889. Pp. 57-115.  | No. 5. May, 1890. Pp. 245-307.  |
| No. 3. Jan., 1890. Pp. 117-174. | No. 6. July, 1890. Pp. 309-358. |
- V. 2, Nos. 1-12. Aug., 1890-July, 1891. xxxii, 859 pp. . . . AG. 351, v. 2
- |                                 |                                  |
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| No. 1. Aug., 1890. Pp. 1-40.    | No. 8. Mar., 1891. Pp. 385-468.  |
| No. 2. Sept., 1890. Pp. 41-88.  | No. 9. Apr., 1891. Pp. 469-540.  |
| No. 3. Oct., 1890. Pp. 89-138.  | No. 10. May, 1891. Pp. 541-624.  |
| No. 4. Nov., 1890. Pp. 139-184. | No. 11. June, 1891. Pp. 625-698. |
| No. 5. Dec., 1890. Pp. 185-264. | No. 12. July, 1891. Pp. 699-771. |
| No. 6. Jan., 1891. Pp. 265-308. | Index. Pp. 773-853.              |
| No. 7. Feb., 1891. Pp. 309-384. |                                  |
- V. 3, Nos. 1-12. Aug., 1891-July, 1892. xxxviii, 1,059 pp. AG. 351, v. 3
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|---------------------------------|----------------------------------|
| No. 1. Aug., 1891. Pp. 1-72.    | No. 7. Feb., 1892. Pp. 439-506.  |
| No. 2. Sept., 1891. Pp. 73-138. | No. 8. Mar., 1892. Pp. 507-584.  |
| No. 3. Oct., 1891. Pp. 139-206. | No. 9. Apr., 1892. Pp. 585-664.  |
| No. 4. Nov., 1891. Pp. 207-274. | No. 10. May, 1892. Pp. 665-758.  |
| No. 5. Dec., 1891. Pp. 275-364. | No. 11. June, 1892. Pp. 759-840. |
| No. 6. Jan., 1892. Pp. 365-438. | No. 12. July, 1892. Pp. 841-970. |
- No. 12 includes (pp. 937-970) a list of all the publications of the various experiment stations prior to Jan., 1892. Index. Pp. 971-1059.
- V. 4, Nos. 1-12. Aug., 1892-July, 1893. xxx, 1,086 pp. . . . AG. 351, v. 4
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| No. 1. Aug., 1892. Pp. 1-110.    | No. 8. Mar., 1893. Pp. 625-700.   |
| No. 2. Sept., 1892. Pp. 111-230. | No. 9. Apr., 1893. Pp. 701-790.   |
| No. 3. Oct., 1892. Pp. 231-322.  | No. 10. May, 1893. Pp. 791-878.   |
| No. 4. Nov., 1892. Pp. 323-394.  | No. 11. June, 1893. Pp. 879-994.  |
| No. 5. Dec., 1892. Pp. 395-454.  | No. 12. July, 1893. Pp. 995-1086. |
| No. 6. Jan., 1893. Pp. 455-524.  | Index. Pp. 997-1086.              |
| No. 7. Feb., 1893. Pp. 525-624.  |                                   |
- V. 5, Nos. 1-12. 1893-94. xxxiv-1227 pp. . . . . AG. 351, v. 5
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|---------------------|------------------------|
| No. 1. Pp. 1-138.   | No. 8. Pp. 745-830.    |
| No. 2. Pp. 139-268. | No. 9. Pp. 831-940.    |
| No. 3. Pp. 268-358. | No. 10. Pp. 941-1040.  |
| No. 4. Pp. 359-452. | No. 11. Pp. 1041-1106. |
| No. 5. Pp. 453-546. | No. 12. Pp. 1107-1227. |
| No. 6. Pp. 547-666. | Index. Pp. 1109-1227.  |
| No. 7. Pp. 667-744. |                        |
- V. 6, Nos. 1-10. 1894-95 . . . . . AG. 351, v. 6
- |                          |                                   |
|--------------------------|-----------------------------------|
| No. 1. Pp. vi, 1-88.     | No. 6. Pp. vii, 489-584.          |
| No. 2. Pp. vi, 89-174.   | No. 7. Pp. vi, 585-678, iii figs. |
| No. 3. Pp. v, 175-254.   | No. 8. Pp. v, 678-758.            |
| No. 4. Pp. vi, 255-348.  | No. 9. Pp. vi, 759-850.           |
| No. 5. Pp. iii, 349-488. | No. 10. Pp. vi, 851-944.          |

## BULLETINS.

- No. 1. Organization of the agricultural experiment stations in the United States. Feb., 1889. 82 pp. AG. 352 : 1
- No. 2. Digest of the annual reports of the agricultural experiment stations in the United States for 1888. In 2 pts. Pt. 1, Oct., 1889, 258 pp.; pt. 2, July, 1891, 173 pp. AG. 352 : 2
- No. 3. Harris, A. W. Report of a meeting of horticulturists of the agricultural experiment stations, at Columbus, Ohio, June 13-14, 1889. Sept., 1889. 12 pp. AG. 352 : 3
- No. 4. Alwood, W. B. List of horticulturists of the agricultural experiment stations in the United States, with an outline of the work in horticulture at the several stations. Nov., 1889. 27 pp. AG. 352 : 4

- No. 5. Lists of the agricultural experiment stations and agricultural schools and colleges in the United States. Mar., 1890. 67 pp. AG. 352 : 5
- No. 6. Lists of botanists of the agricultural experiment stations in the United States, with an outline of the work in botany at the several stations. June, 1890. 23 pp. AG. 352 : 6
- No. 7. Harris, A. W., and H. E. Alvord, eds. Proceedings of the fifth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., Aug. 12-18, 1891. Jan., 1892. 113 pp. AG. 352 : 7
- No. 8. Warington, R. Six lectures on the investigations at Rothamsted experimental station, delivered under the direction of the Lawes agricultural trust, before the Association of American Agricultural Colleges and Experiment Stations, at Washington, D. C., Aug. 12-18, 1891. Jan., 1892. 113 pp. AG. 352 : 8
- No. 9. Conn, H. W. The fermentations of milk. 75 pp.. AG. 352 : 9
- No. 10. Harrington, M. W. Meteorological work for agricultural institutions. Jan., 1892. 23 pp. AG. 352 : 10
- No. 11. Jenkins, E. H., and A. L. Winton. A compilation of analyses of American feeding stuffs. Jan., 1893. 155 pp. AG. 352 : 11
- No. 12. Organization lists of the agricultural experiment stations and agricultural schools and colleges in the United States. June, 1892. 78 pp. AG. 352 : 12
- No. 13. *Same*. 123 pp. June, 1893. AG. 352 : 13
- No. 14. Proceedings of a convention of the National League for Good Roads, held at Washington, D. C., Jan. 17-18, 1893. Oct., 1893. 101 pp. AG. 352 : 14
- No. 15. Handbook of experiment-station work. A popular digest of the publications of the agricultural experiment stations in the United States. Dec., 1893. 411 pp. AG. 352 : 15
- No. 16. Harris, A. W., and H. E. Alvord, eds. Proceedings of the sixth annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at New Orleans, La., Nov. 15-19, 1892. Oct., 1893. 176 pp. AG. 352 : 16
- No. 17. Atkinson, E. Suggestions for the establishment of food laboratories in connection with the agricultural experiment stations of the United States. Oct., 1893. 20 pp. AG. 352 : 17
- No. 18. A contribution to the investigation of the assimilation of free atmospheric nitrogen by black and white mustard. Dec., 1893. 19 pp., xv figs. AG. 352 : 18
- No. 19. Organization lists of the agricultural experiment stations and agricultural schools and colleges of the United States. Jan., 1894. 99 pp. AG. 352 : 19
- No. 20. True, A. C., and H. E. Alvord, eds. Proceedings of the second annual convention of the Association of American Agricultural Colleges and Experiment Stations, at Chicago, Oct. 17-19, 1893. 100 pp. AG. 352 : 20
- No. 21. Atwater, W. O. Methods and results of investigations on the chemistry and economy of food. May, 1895. 222 pp., xv figs., iii charts. AG. 352 : 21

- No. 22. Gilbert, Sir Joseph Henry. Agricultural investigations at Rothhamsted, England, during a period of fifty years. Six lectures delivered under the auspices of the Lawes Agricultural Trust. 316 pp., vi figs., ii pls. Pap. and cl. July, 1895. AG. 352 : 22
- No. 23. Organization lists of the agricultural experiment stations and institutions with courses in agriculture in the United States. May, 1895. 88 pp. AG. 352 : 23

## CIRCULARS.

- No. 1. List of agricultural experiment stations in the United States, with names and addresses of directors. Feb., 1889. 7 pp. AG. 353 : 1
- No. 2. Letter suggesting meeting of Eastern and Southern stations to discuss cooperative field experiments. Jan., 1889. 2 pp. AG. 353 : 2
- No. 3. Letter asking for names of originators of fruits and vegetables. Feb., 1889. 3 pp. AG. 353 : 3
- No. 4. Memorandum for station reports. Feb., 1889. 4 pp. AG. 353 : 4
- No. 5. Call for meeting of stations in Washington, D. C., Mar. 5, 1889, to discuss cooperative field experiments. Feb., 1889. 1 p. AG. 353 : 5
- No. 6. List of originators of fruits, vegetables, etc., in the United States. Mar., 1889. 8 pp. (Manifold script, 8 by 12 $\frac{3}{4}$  inches.) AG. 353 : 6
- No. 7. Cooperative field experiments with fertilizers. Apr., 1889. 39 pp. AG. 353 : 7
- No. 8. Explanations and directions for soil tests with fertilizers. Apr., 1889. 11 pp. AG. 353 : 8
- No. 9. Memorandum of information for a report on farmers' institutes in the United States. May, 1889. 3 pp. AG. 353 : 9
- No. 10. Letter asking for reports regarding special horticultural work. July, 1889. 6 pp. AG. 353 : 10
- No. 11. Rules for naming vegetables. Oct., 1889. 3 pp. AG. 353 : 11
- No. 12. Relative to the library and publications of the Office of Experiment Stations. July, 1889. 3 pp. AG. 353 : 12
- No. 13. Letter relative to meeting of station specialists. Oct., 1889. 3 pp. AG. 353 : 13
- No. 14. Letter announcing meeting of Association of Economic Entomologists. Oct., 1889. 3 pp. AG. 353 : 14
- No. 15. Inquiries regarding investigations in botany at the agricultural colleges and experiment stations. Jan., 1890. 4 pp. AG. 353 : 15
- No. 16. Blank application for technical publications of Office of Experiment Stations. Jan., 1890. 2 pp. AG. 353 : 16
- No. 17. Letter to manufacturers of spray machinery. Jan., 1891. 2 pp. AG. 353 : 17
- No. 18. List of originators of fruits and vegetables in the United States, with addresses and names of specialties. Mar., 1891. 12 pp. AG. 353 : 18
- No. 19. Circular letter relative to cooperation in experiments with fertilizers on fruit and vegetables, to study the feeding capacities of the plants, and the variations due to the action of fertilizers. Mar., 1891. 4 pp. AG. 353 : 19
- No. 20. Organization list of the agricultural experiment stations in the United States. June, 1891. 21 pp. AG. 353 : 20



- No. 21. List of the representatives of agricultural colleges AG. 353 : 21 and experiment stations who were in attendance upon the fifth annual convention of the Association of American Agricultural Colleges and Experiment Stations. Aug., 1891. 4 pp. (Printed for the use of the convention.)
- No. 22. Letter relative to subject index of the literature AG. 353 : 22 of agricultural experiment stations and kindred institutions. Nov., 1891. 4 pp.
- No. 23. Key to subject index of literature of agricultural AG. 353 : 23 experiment stations and kindred institutions. Dec., 1893. 3 pp.
- No. 24. Address list of the agricultural experiment sta- AG. 353 : 24 tions. Dec., 1893. 1 p.
- No. 25. True, A. C. Canaigre. June, 1894. 4 pp. . . . . AG. 353 : 25
- No. 26. Address list of agricultural colleges and experi- AG. 353 : 26 ment stations. Nov., 1894. 4 pp.
- No. 27. Statistics of agricultural colleges and experiment AG. 353 : 27 stations, 1894. June, 1895. 18 pp.
- [Unnumbered.] Terms of sale of the card index of agricul- tural literature. 1893. 8° folder.

## MISCELLANEOUS BULLETINS.

- No. 1. Harris, A. W., and H. E. Alvord. Proceedings of AG. 354 : 1 the second annual convention of the Association of American Agricultural Colleges and Experiment Stations, held at Knoxville, Tenn., Jan. 1-3, 1889. 123 pp.
- No. 2. *Same*. Third, held at Washington, D. C., Nov. AG. 354 : 2 12-15, 1889. 142 pp.
- No. 3. *Same*. Fourth, held at Champaign, Ill., Nov. 11-13, AG. 354 : 3 1890. 156 pp.
- Series discontinued.

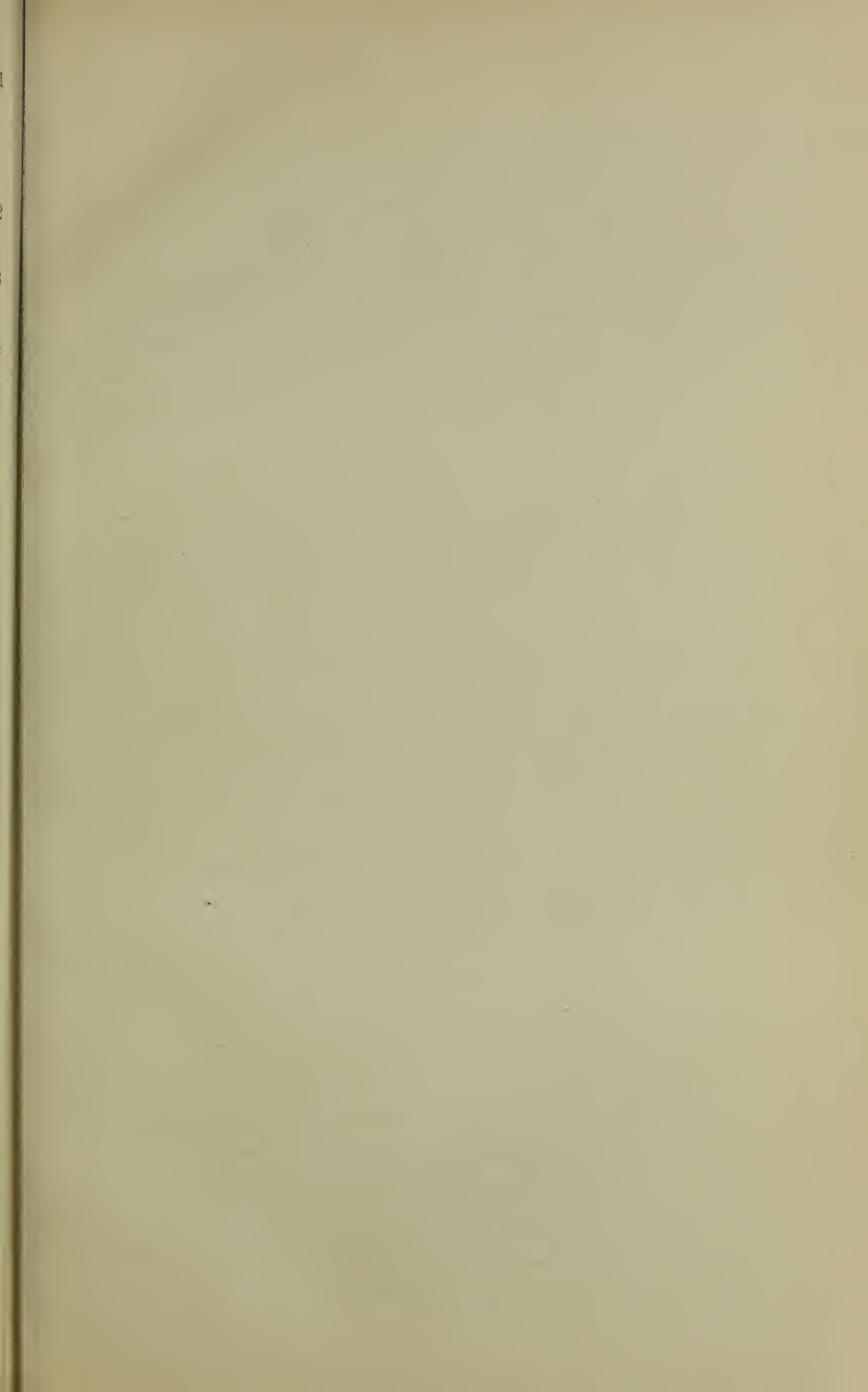
## OFFICE OF FIBER INVESTIGATIONS.

## ANNUAL REPORTS.

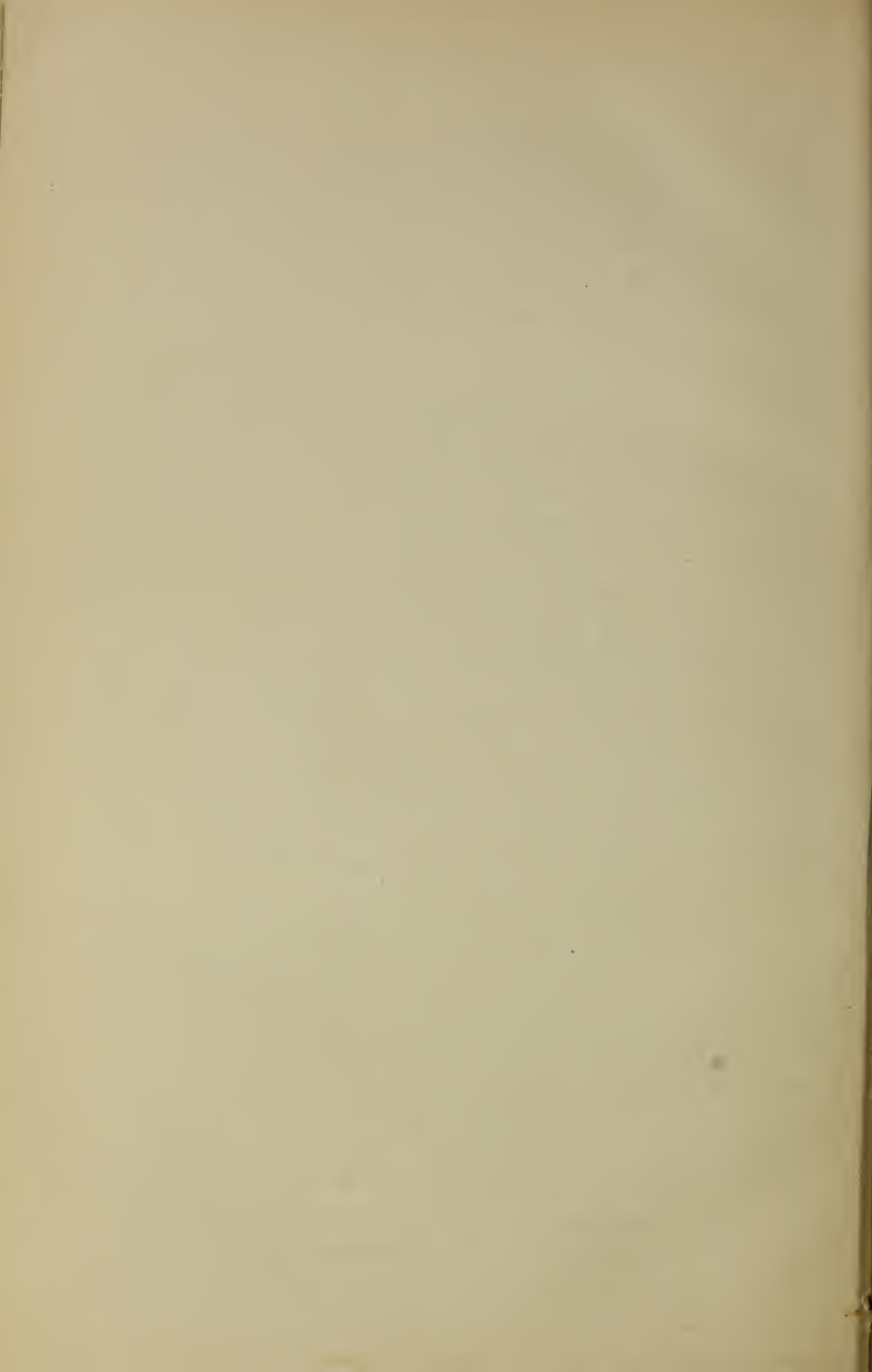
[Fiber investigations were begun in the Division of Statistics in November, 1889, under Charles Richards Dodge. In 1890 the office of Fiber Investigations was established with Mr. Dodge in charge. The annual reports are bound with those of the Secretary of Agriculture, and are also issued in separate pamphlet form, in limited editions, known as author's editions.]

In binding a series of the annual reports of this Office, bind as many pamphlets as will make a convenient volume, and let the classification number be the number of the office (i. e., AG. 36:), followed by the annual numbers, thus: AG. 36 : 890-94.]

1890. [Charles R. Dodge, Chief], in Annual Report Secretary of Agriculture for 1890, pp. 451-470.
1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 417-438, xii pls., xi figs.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 359-376, vi pls.
1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 567-584, i pl.
1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 196, 197.







## REPORTS.

- No. 1. Dodge, C. R. Report on flax, hemp, ramie, and AG. 361 : 1  
jute, with considerations upon flax and hemp culture  
in Europe; a report on the ramie machine trials of 1889  
in Paris, and present status of fiber industries in the  
United States. (Reprint of Report No. 1, miscellane-  
ous series, of the Division of Statistics. June, 1892.)  
104 pp., vii figs.
- No. 2. *Same*. Recent facts concerning the ramie industry AG. 361 : 2  
in America, with brief statements relating to manufac-  
ture in Europe, etc. (Reprint from statistical report,  
No. 84.) May, 1891. 16 pp.
- No. 3. *Same*. A report on sisal-hemp culture in the United AG. 361 : 3  
States, with statements relating to the industry in  
Yucatan and the Bahama Islands, and brief considera-  
tions upon the question of machinery for extracting the  
fiber. July, 1891. 59 pp., viii pls., xxi figs.
- No. 4. *Same*. A report on flax culture for fiber in the AG. 361 : 4  
United States, including special reports on flax culture  
in Ireland, Belgium, and in Austria, with statements  
relative to the industry in Russia. July, 1892. 93 pp.,  
ii pls., xii figs.
- No. 5. *Same*. A report on the leaf fibers of the United AG. 361 : 5  
States, detailing results of recent investigations relat-  
ing to Florida sisal-hemp, the false sisal-hemp plant of  
Florida, and other fiber-producing agaves; bowstring  
hemp, pineapple fiber, New Zealand flax, and bear  
grass. July, 1893. 73 pp., x pls., xii figs.
- No. 6. *Same*. A report on the uncultivated bast fibers AG. 361 : 6  
of the United States. Mar., 1894. 54 pp., v pls.

## DIVISION OF FORESTRY.

## ANNUAL REPORTS.

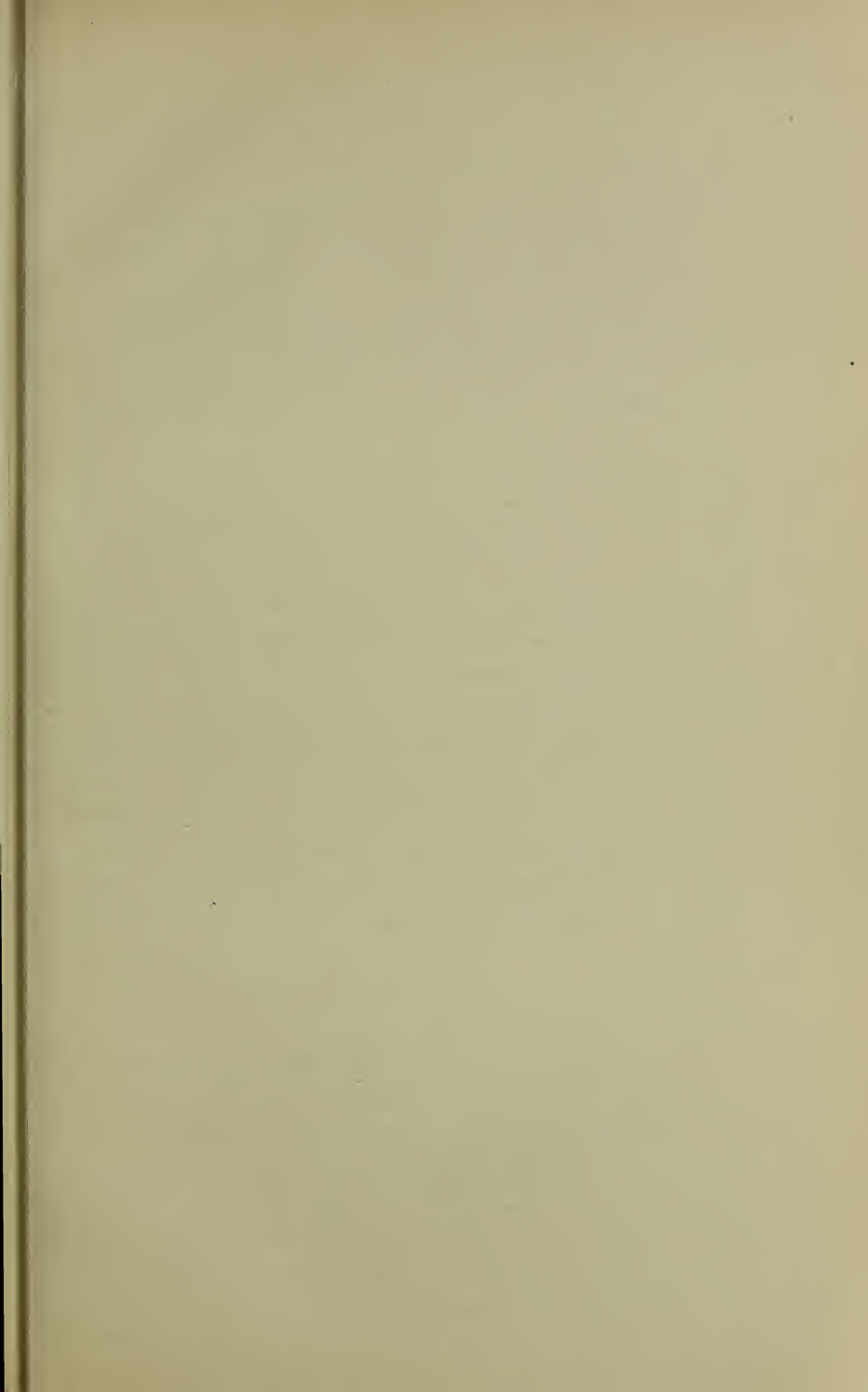
[The work in forestry under the auspices of the Department began in 1876 by the appointment of Franklin B. Hough as special agent. The Division of Forestry was organized by order of the Commissioner of Agriculture in 1881, but was not recognized by Congress as a Division until 1886. The annual reports of the Chief of the Division of Forestry are also issued in an independent pamphlet form, known as author's editions. In binding a separate file of the annual reports of the Chief of this Division, bind as many pamphlets as will make a convenient volume, and let the classification number be the number of the Division (i. e., AG. 37:), followed by the annual number, thus: AG. 37: 890-95.]

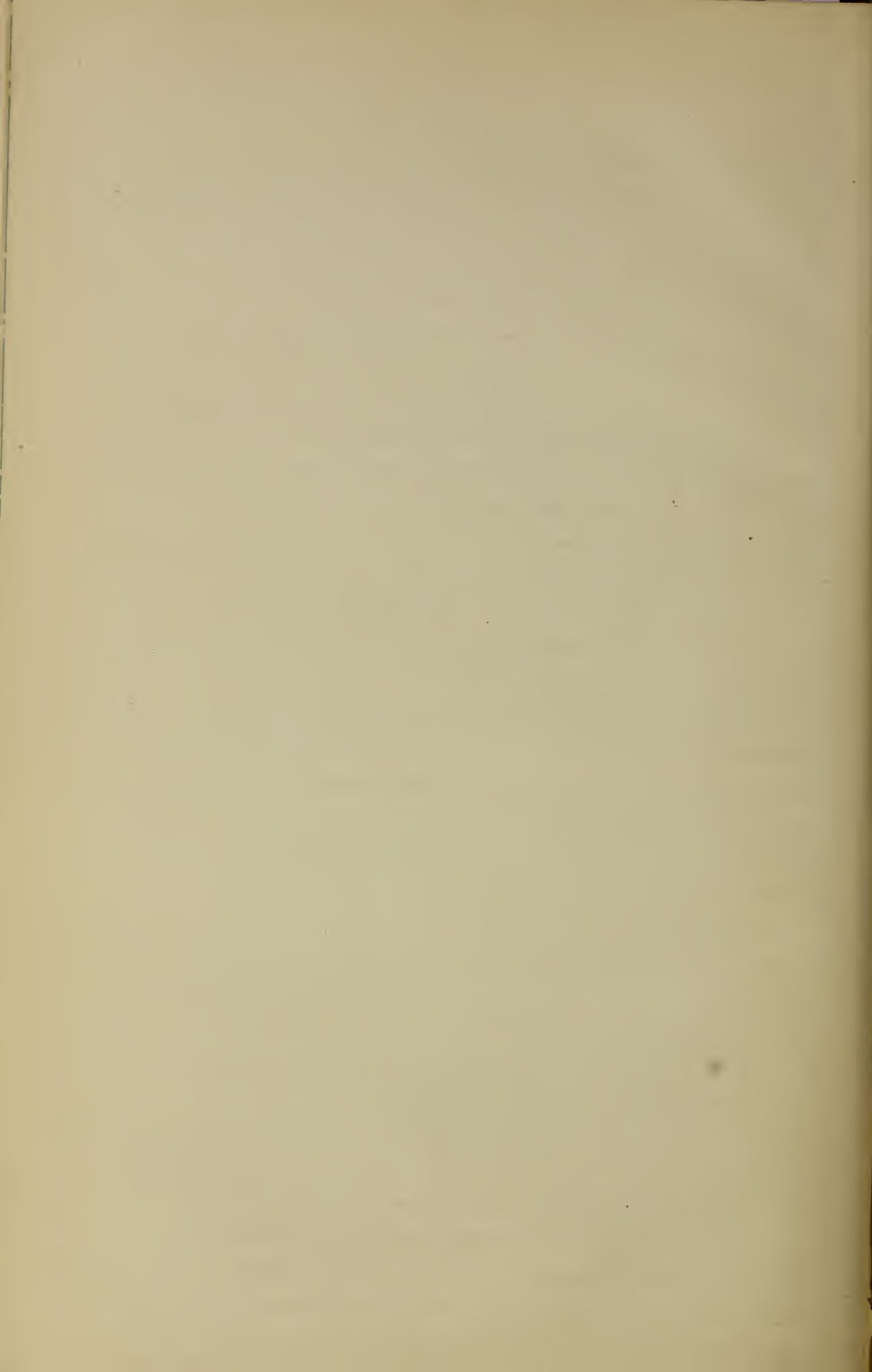
1884. [N. H. Eggleston, Chief] in Report of the Secretary  
of Agriculture for 1884, pp. 137-181.
1885. *Same*, in the Report of the Secretary of Agriculture  
for 1885, pp. 183-207.
1886. [B. E. Fernow, Chief] in the Report of the Secre-  
tary of Agriculture for 1886, pp. 149-227.
1887. *Same*, in the Report of the Secretary of Agriculture  
for 1887, pp. 605-617.
1888. *Same*, in the Report of the Secretary of Agriculture  
for 1888, pp. iv, 597-641, i pl. June, 1889.
1889. *Same*, in the Report of the Secretary of Agriculture  
for 1889, pp. iv, 273-330, iii figs. Aug., 1890.

1890. [B. E. Fernow, Chief] in the Report of the Secretary of Agriculture for 1890, pp. iii, 193-236. May, 1891.  
 1891. *Same*, in the Report of the Secretary of Agriculture for 1891, pp. 191-229, viii pls. June, 1891.  
 1892. *Same*, in the Report of the Secretary of Agriculture for 1892, pp. iii, 293-358, vi pls., i diagr. July, 1893.  
 1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 303-364, iii pls.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 133-142.

## BULLETINS.

- No. 1. Fernow, B. E., and others. Report on the relations of railroads to forest supplies and forestry; together with appendixes on the structure of some timber ties, the behavior and the cause of their decay in the roadbed; on wood preservation; on metal ties; and on the use of spark arresters. 149 pp., xxi pls., vii figs. AG. 371 : 1
- No. 2. James, E. J., and others. Report on the forest condition of the Rocky Mountains; with a map showing the location of forest areas on the Rocky Mountain range. 2d ed. 252 pp., i map, i diagr. AG. 371 : 2
- No. 3. Tratman, E. E. R. Preliminary report on the use of metal track on railways as a substitute for wooden ties; to which is added a report of experiments in wood seasoning by the Chicago, Burlington and Quincy Railroad Company, and other notes, compiled by B. E. Fernow. 79 pp., vi diagr. AG. 371 : 3
- No. 4. *Same*. Report on the substitution of metal for wood in railroad ties; together with a discussion on practicable economies in the use of wood for railway purposes, by B. E. Fernow. 363 pp., xxx pls. AG. 371 : 4
- No. 5. Fernow, B. E. What is forestry? 52 pp. . . . . AG. 371 : 5
- No. 6. *Same*. Timber physics. Part 1. Preliminary report. 40. 57 pp., vi pls., x figs. AG. 371 : 6
- No. 7. Forest influences. (*Contents*: Introduction and summary of conclusions, by B. E. Fernow; Review of forest meteorological observations, etc., by M. W. Harrington; Relation of forests to water supplies, by B. E. Fernow; Notes on the sanitary significance of forests, by B. E. Fernow; Determination of the true amount of precipitation and its bearing on theories of forest influences, by C. Abbe; Analysis of rainfall with relation to surface conditions, by G. E. Curtiss.) 197 pp., lxiii figs. AG. 371 : 7
- No. 8. Timber physics. Part 2. (Pt. 1, see No. 6, above.) Progress report: Results of investigations on long-leaf pine (*Pinus palustris*). (*Contents*: Mechanical tests made at Washington University testing laboratory, St. Louis, by J. B. Johnson; The long-leaf pine, its characteristics and distribution, by B. E. Fernow; Results of mechanical tests, by J. B. Johnson; Field report on turpentine timber, by F. Roth; Resinous contents and their distribution in the long-leaf pine, by M. Gomberg; Field records of test material, by C. Mohr.) 92 pp., xii pls., xxii figs. AG. 371 : 8
- No. 9. Tratman, E. E. R. Report on the use of metal railroad ties, and on the preservative processes and metal tie plates for wooden ties. 1894. 363 pp., v pls. AG. 371 : 9







## CIRCULARS.

- No. 3. Circular of information to wood consumers. Increasing the durability of timber. n. d. 4 pp. AG. 372 : 3
- No. 4. For information of railroad managers. Calling attention to the value of chestnut oak for ties. Large 8° folder. Dec., 1887. AG. 372 : 4
- No. 5. Arbor-Day planting in the Eastern States. Mar., 1889. 4 pp., 8 by 10 inches. AG. 372 : 5
- No. 6. Circular letter to accompany tree seeds distributed from the Department of Agriculture, and furnishing necessary instructions for growing tree seedlings. Feb., 1890. 4 pp., letter size. AG. 372 : 6
- No. 7. Circular of information regarding the Government timber tests undertaken by the Division of Forestry. Sept., 1891. 4 pp. AG. 372 : 7
- No. 8. Strength of "boxed" or "turpentine" timber. Mar. 5, 1892. 3 pp. AG. 372 : 8
- No. 9. Effect of turpentine gathering on the timber of long-leaf pine. Jan., 1893. 1 p. AG. 372 : 9
- No. 10. Suggestions to the lumbermen of the United States in behalf of more rational forest management. Apr., 1893. 8 pp. AG. 372 : 10

## SPECIAL REPORTS.

- Letter from the agent of the Forestry Division, requesting information as to the extent of the lumber and wood trade. July, 1883. Folio sheet. AG. 373 :
- Catalogue of the forest trees of the United States which usually attain a height of 16 feet or more, with notes and brief descriptions of the more important species. 1876. 38 pp. AG. 373 :
- Circular issued for information of railroad managers. 1887. 4 pp. Large 8°. AG. 373 :
- Statement of B. E. Fernow, Chief of Forestry Division to the Committee on Agriculture, House of Representatives, Feb. 16, 1895. 4 pp. AG. 373 :
- Letter to the Secretary of Agriculture (from B. E. Fernow) regarding forest growth in the United States. Apr. 5, 1893. 4 pp. AG. 373 :
- Instructions for the collection of test pieces of pines for timber investigations. n. d. 4 pp. AG. 373 :

## DIVISION OF GARDENS AND GROUNDS.

[This division was established in 1862 as an experimental garden, with William Saunders as Superintendent. The annual reports of the Superintendent are bound with those of the Commissioner or Secretary.]

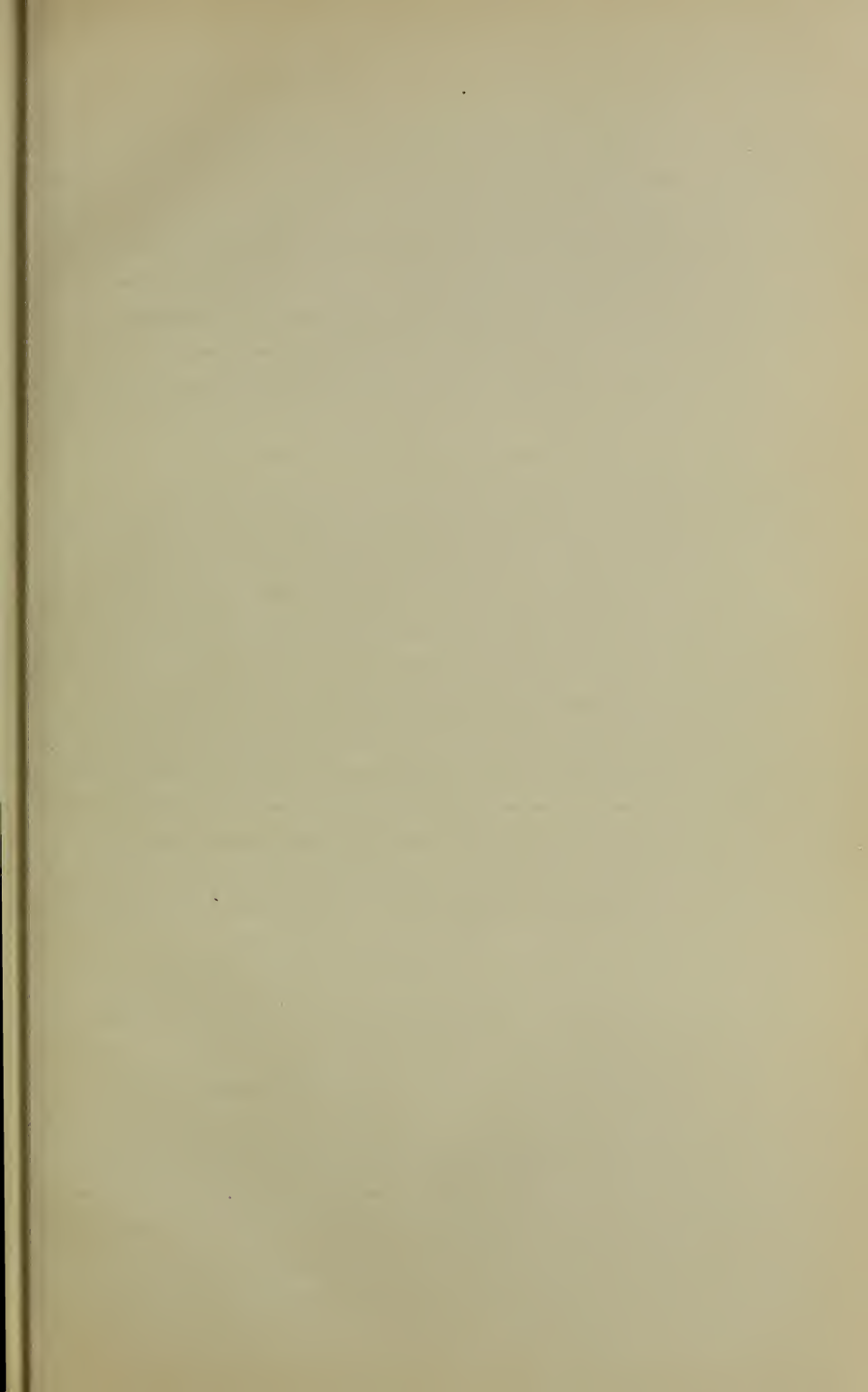
## ANNUAL REPORTS.

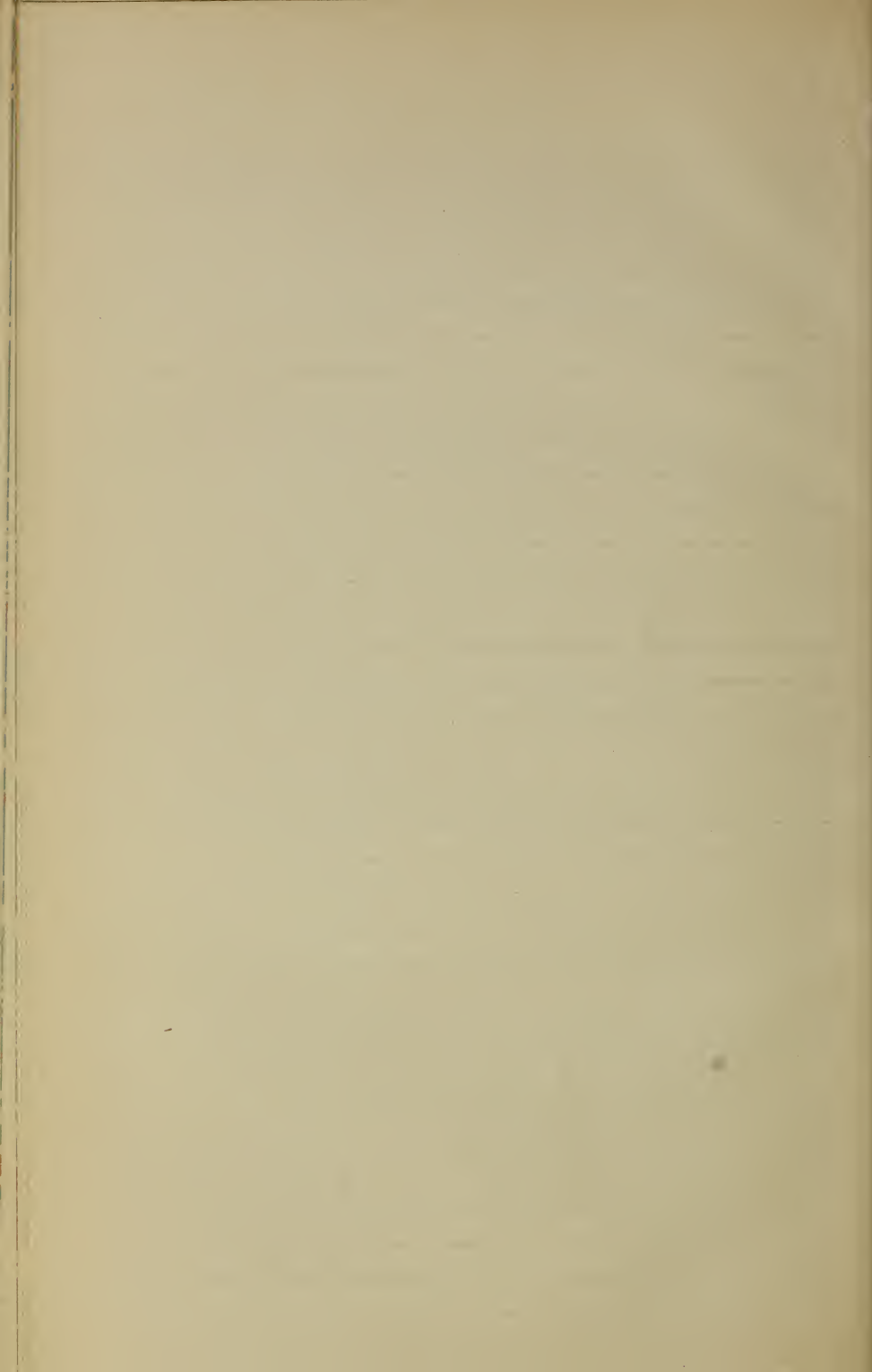
1862. [William Saunders], in Annual Report Commissioner of Agriculture for 1862, pp. 541-545.
1863. *Same*, in Annual Report Commissioner of Agriculture for 1863, pp. 547-560.
1864. *Same*, in Annual Report Commissioner of Agriculture for 1864, pp. 605-609.

1865. [William Saunders], in Annual Report Commissioner of Agriculture for 1865, pp. 13-25.
1866. *Same*, in Annual Report Commissioner of Agriculture for 1866, pp. 17-26.
1867. *Same*, in Annual Report Commissioner of Agriculture for 1867, pp. 23-31.
1868. *Same*, in Annual Report Commissioner of Agriculture for 1868, pp. 118-124.
1869. *Same*, in Annual Report Commissioner of Agriculture for 1869, pp. 79-91.
1870. *Same*, in Annual Report Commissioner of Agriculture for 1870, pp. 16-23.
1871. *Same*, in Annual Report Commissioner of Agriculture for 1871, pp. 102-109.
1872. *Same*. None printed.
1873. *Same*. None printed.
1874. *Same*. None printed.
1875. *Same*. None printed.
1876. *Same*, in Annual Report Commissioner of Agriculture for 1876, pp. 61-73.
1877. *Same*, in Annual Report Commissioner of Agriculture for 1877, pp. 47-65.
1878. *Same*, in Annual Report Commissioner of Agriculture for 1878, pp. 194-207.
1879. *Same*, in Annual Report Commissioner of Agriculture for 1879, pp. 359-364.
1880. *Same*. None printed.
- 1881-82. *Same*, in Annual Report Commissioner of Agriculture for 1881-82, pp. 215-230.
1883. *Same*, in Annual Report Commissioner of Agriculture for 1883, pp. 181-196.
1884. *Same*. None printed.
1885. *Same*, in Annual Report Commissioner of Agriculture for 1885, pp. 33-46.
1886. *Same*. None printed.
1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 673-690.
1888. *Same*. None printed.
1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 111-134.
1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 557-596.
1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 463-484, vii pls.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 377-402.
1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 365-387.
1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 207, 208.

## SPECIAL REPORTS.

Papers on horticultural and kindred subjects. (Reprinted from various annual reports of the Secretary of Agriculture.) 124 pp. July, 1891. AG. 381 : 1





Catalogue of economic plants in the collection of the United States Department of Agriculture. (From the Report of the Secretary of Agriculture for 1889.) Pp. 111-134. July, 1890. AG. 381 : 2

#### DIVISION OF ILLUSTRATIONS.

[This division was established July 14, 1890, with George Marx as Chief, and was abolished June 30, 1894.]

#### ANNUAL REPORTS.

1891. [George Marx, Chief], in Annual Report Secretary of Agriculture for 1891, pp. 485-487.  
 1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 495, 496.  
 1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 495, 496.

#### OFFICE OF IRRIGATION INQUIRY.

[This office was organized by act of April 4, 1890, authorizing the artesian wells investigations, and to this was added, on the 30th of September following, "the examination of the sources and location of underflow waters between the foothills of the Rocky Mountains and the ninety-seventh meridian west;" and "an inquiry into the cultivation of the soil by means of irrigation." The annual reports of the Chief of the division are bound with the Annual Report of the Secretary of Agriculture.]

#### ANNUAL REPORT.

1890. [R. J. Hinton, Special Agent in charge], in Annual Report Secretary of Agriculture for 1890, pp. 471-487, 1 map.  
 1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 439-450, 1 map.  
 1892. *Same*. None printed.  
 1893. [Charles W. Irish, Special Agent in charge], in Annual Report Secretary of Agriculture for 1893, pp. 593, 594.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 219, 220.

#### BULLETINS.

- No. 1. Critchett, O. A. Abstract of the laws of the several States and Territories on irrigation and water rights. Sept., 1893. 180 pp. AG. 39 : 1

#### SPECIAL REPORTS.

- Progress report. In 2 parts. . . . . AG. 391 : 1  
 Pt. 1.—Hinton, R. J. Irrigation in the United States. Apr., 1891. 337 pp., ills.  
 Pt. 2.—Nettleton, E. S. Artesian and underflow investigation between the ninety-seventh degree of west longitude and the foothills of the Rocky Mountains. May, 1891. 14 pp., 100 pp.  
 Also in 51 Cong., 2d sess., S. ex. doc. No. 53.  
 Report on the preliminary investigation to determine the proper location of artesian wells within the area of the ninety-seventh meridian and east of the foothills of the Rocky Mountains. 398 pp., ills. AG. 391 : 2  
 Also in 51 Cong., 1st sess., S. ex. doc. No. 222.



Report on irrigation. In 4 parts. June, 1892. . . . . AG. 391 : 3

Pt. 1.—Hinton, R. J. A report on irrigation and the cultivation of the soil thereby, with physical data, conditions, and progress within the United States for 1891. 459 pp., ills.

Pt. 2.—Nettleton, E. S. Artesian and underflow investigation; final report of the chief engineer. 116 pp., ills.

Pt. 3.—Hay, Robert. Final geological reports of the artesian and underflow investigation between the ninety-seventh meridian of west longitude and the foothills of the Rocky Mountains. 209 pp., ills.

Pt. 4.—Gregory, J. W., and F. F. B. Coffin. Final report on the mid-plains division of the artesian and underflow investigation between the ninety-seventh meridian of longitude, west, and the foothills of the Rocky Mountains, and a special report on certain artesian conditions in the State of South Dakota. 61 pp., xx figs.

Also in 52 Cong., 1st sess., S. ex. doc. No. 41.

Irrigation and reclamation of arid lands. Report of the special committee of the United States Senate. 1890. 4 vols. in 2. AG. 391 : 4

V. 1. Report of the committee, majority and minority, with testimony of witnesses. 459 pp.

V. 2. The Great Basin region and California. 573 pp.

V. 3. The Rocky Mountain region and the Great Plains. 608 pp.

V. 4. Statements by Director Powell and other officers of the United States Geological Survey; Consular reports; General report on irrigation in the United States; Miscellaneous papers. Also in 51 Cong., 1st sess., S. Rpt., v. 5 and 6.

This report was not issued in connection with the Department of Agriculture. It contains much information concerning our irrigation interests, water supply, condition of the arid region and Pacific Slope artesian wells, storage of water, State water laws, irrigation abroad, etc.

## LIBRARY.

### ANNUAL REPORT.

1894. [W. P. Cutter, Librarian], in Annual Report Secretary of Agriculture for 1894, p. 203.

### BULLETINS.

No. 1. Accessions to the Department Library. Apr., 1894. 4°. 12 pp. AG. 40 : 1

No. 2. *Same*, Apr. to June, 1894. 4°. 12 pp. . . . . AG. 40 : 2

No. 3. Periodicals and society publications currently received at the Department Library. 4°. 8 pp. AG. 40 : 3

No. 4. Accessions to the Library. July-Oct., 1894. 4°. 9 pp. AG. 40 : 4

No. 5. *Same*. Nov.—Dec., 1894. 4°. 7 pp. . . . . AG. 40 : 5

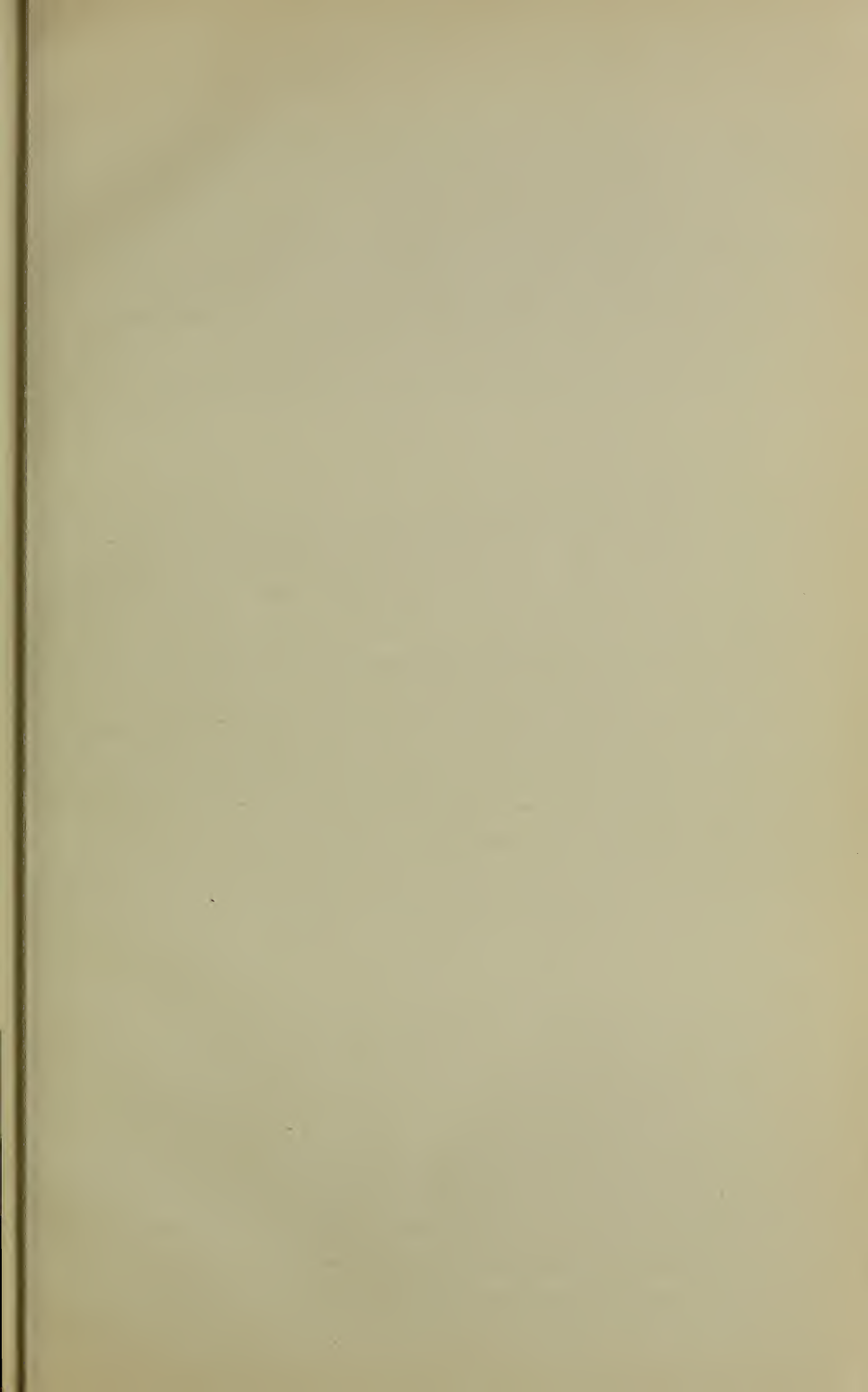
No. 6. *Same*. Jan.—Mar., 1895. 4°. 12 pp. . . . . AG. 40 : 6

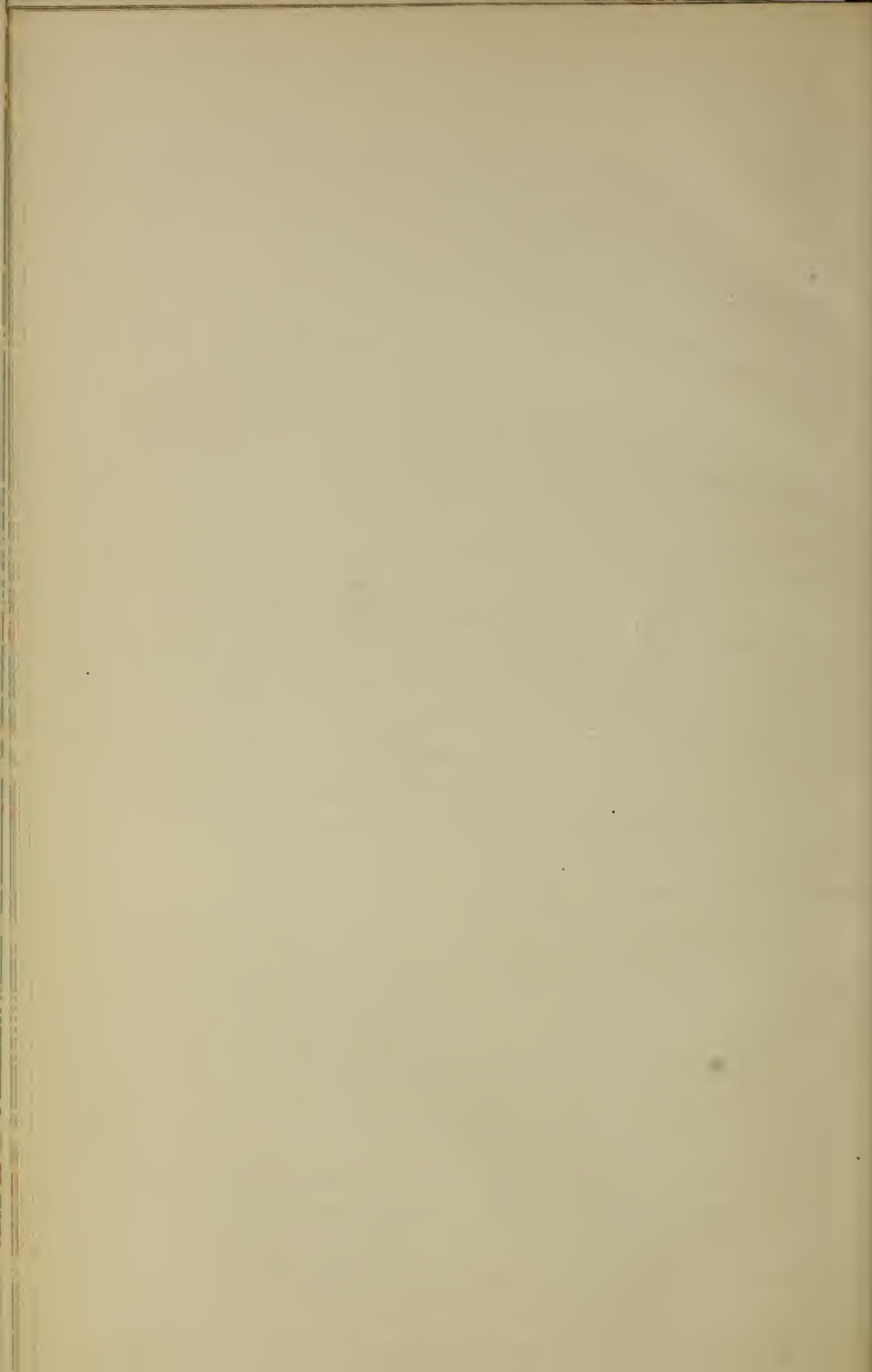
No. 7. *Same*. Apr.—June, 1895. 4°. 11 pp. . . . . AG. 40 : 7

## DIVISION OF MICROSCOPY.

[Although reports on microscopic investigations had been made at intervals since 1871 by the Microscopist, Thomas Taylor, no regular annual report was issued until 1885. These reports have been included in those of the Secretary of Agriculture. Thomas Taylor has been Chief Microscopist continuously since the beginning of the microscopical investigations.]

By order of Secretary Morton the work hitherto carried on by this division was, on July 1, 1895, divided among the divisions of Chemistry, Animal Industry, Vegetable Pathology, etc.]





## ANNUAL REPORTS.

1885. [Thomas Taylor, Chief], in Annual Report Commissioner of Agriculture for 1885, pp. 89-108.
1886. *Same*, in Annual Report Commissioner of Agriculture for 1886, pp. 139-147, vi pls.
1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 617-625, iii pls.
1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 559-564, ix pls.
1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 191-200, xiii pls.
1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 361-374, xi pls.
1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 405-416, ix pls.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 281-292, ix pls.
1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 297-302, vii pls.
1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 195, 196.

## FOOD PRODUCTS.

- No. 1. Twelve edible mushrooms of the United States, with directions for their identification and their preparation as food. (Reprinted from the Report of the Commissioner of Agriculture for 1885; with an appendix on the preparation of mushroom beds.) 20 pp., i pl. Dec., 1892. AG. 41 : 1
- No. 2. Eight edible and twelve poisonous mushrooms of the United States, with directions for the culture and culinary preparation of the edible species. (A reprint of "Mushrooms of the United States," from the Annual Report of the Secretary of Agriculture for 1890, pp. 365-374; with a brief appendix: List of the edible fungi of the United States.) 16 pp., v pls. Oct., 1891. AG. 41 : 2

## SPECIAL REPORTS.

- Lyman, C. P. Letter to Dr. Thomas Taylor on the work of his microtome. Sept. 30, 1881. AG. 412 : 1
- Taylor, T. Fibrine and bacteria. n. d. 5 pp. AG. 412 : 2
- Same*. Microscopic observations on internal parasites in domestic fowls, and butter and fats. 1884. 7 pp., i pl. AG. 412 : 3
- Same*. Naphthaline as an insecticide, etc., its effect on seeds, plants, and animals. 1883. 6 pp. AG. 412 : 4

## DIVISION OF ORNITHOLOGY AND MAMMALOLOGY

[Since its organization in 1886, this division has been in charge of C. Hart Merriam. The annual reports are bound with those of the Secretary of Agriculture, and are also issued in separate pamphlet form, known as author's editions.]

## ANNUAL REPORTS.

1886. [C. Hart Merriam, Chief], in Annual Report Commissioner of Agriculture for 1886, pp. 227-258, i map.

1887. [C. Hart Merriam, Chief,] in Annual Report Commissioner of Agriculture for 1887, pp. 399-456.  
 1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 477-536.  
 1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 363-376, ii pls.  
 1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 277-285.  
 1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 267-271.  
 1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 181-200, v pls.  
 1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 227-234, i pl.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 167-169.

## BULLETINS.

- No. 1. Barrows, W. B. The English sparrow in North America, especially in its relations to agriculture. July, 1889. 405 pp., i map. AG. 421 : 1  
 No. 2. Cooke, W. W. Report on bird migration in the Mississippi Valley in the years 1884 and 1885. 1888. 313 pp., i map. AG. 421 : 2  
 No. 3. Fisher, A. K. The hawks and owls of the United States in their relation to agriculture. Feb., 1893. 210 pp., xxvi pls. AG. 421 : 3  
 No. 4. Bailey, V. The prairie ground squirrels or spermophiles of the Mississippi Valley. Oct., 1893. 69 pp., iii pls. AG. 421 : 4  
 No. 5. *Same*. The pocket gophers of the United States. 1895. 47 pp., vi figs., ii col. pls., i col. map. AG. 421 : 5

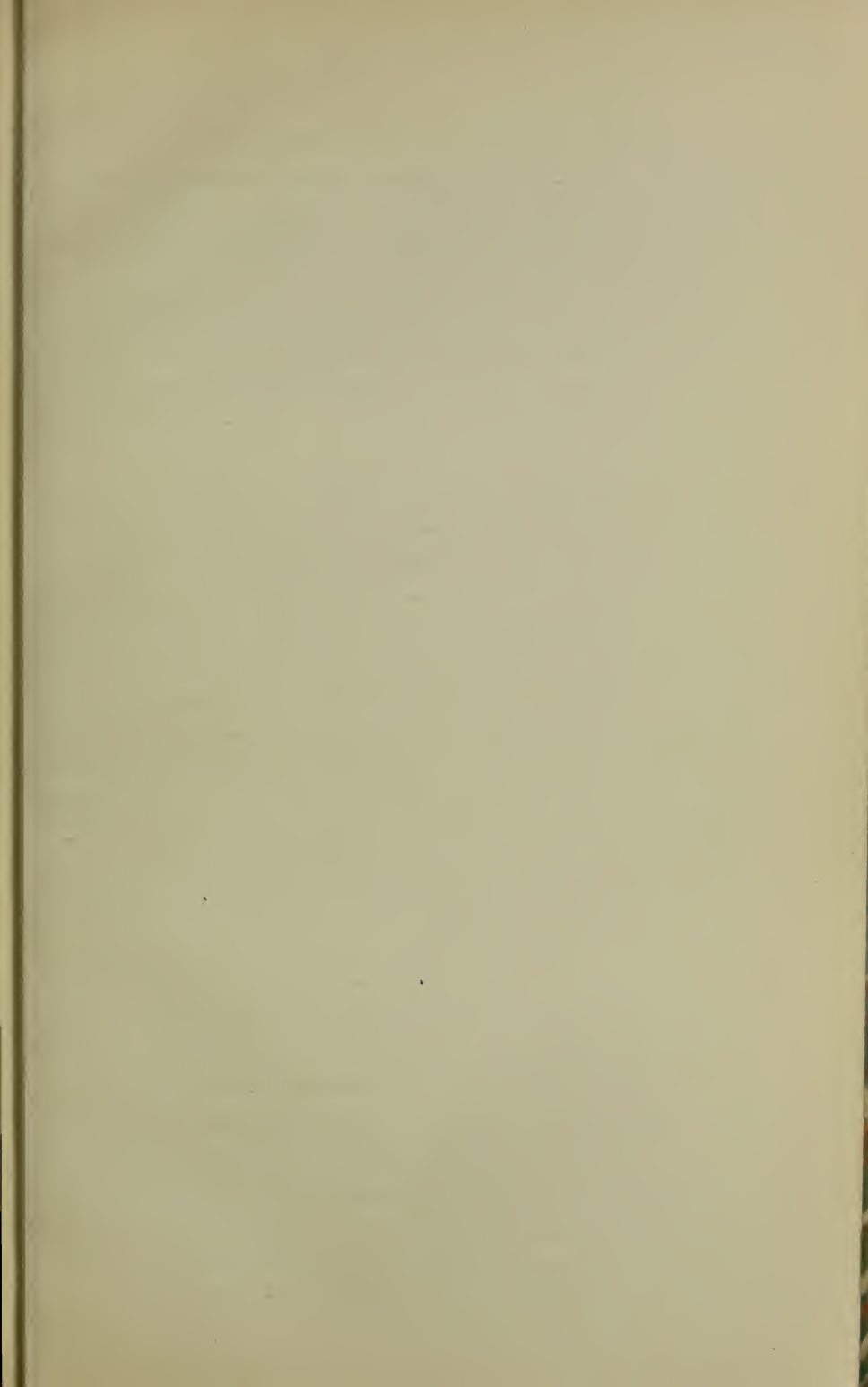
## CIRCULARS.

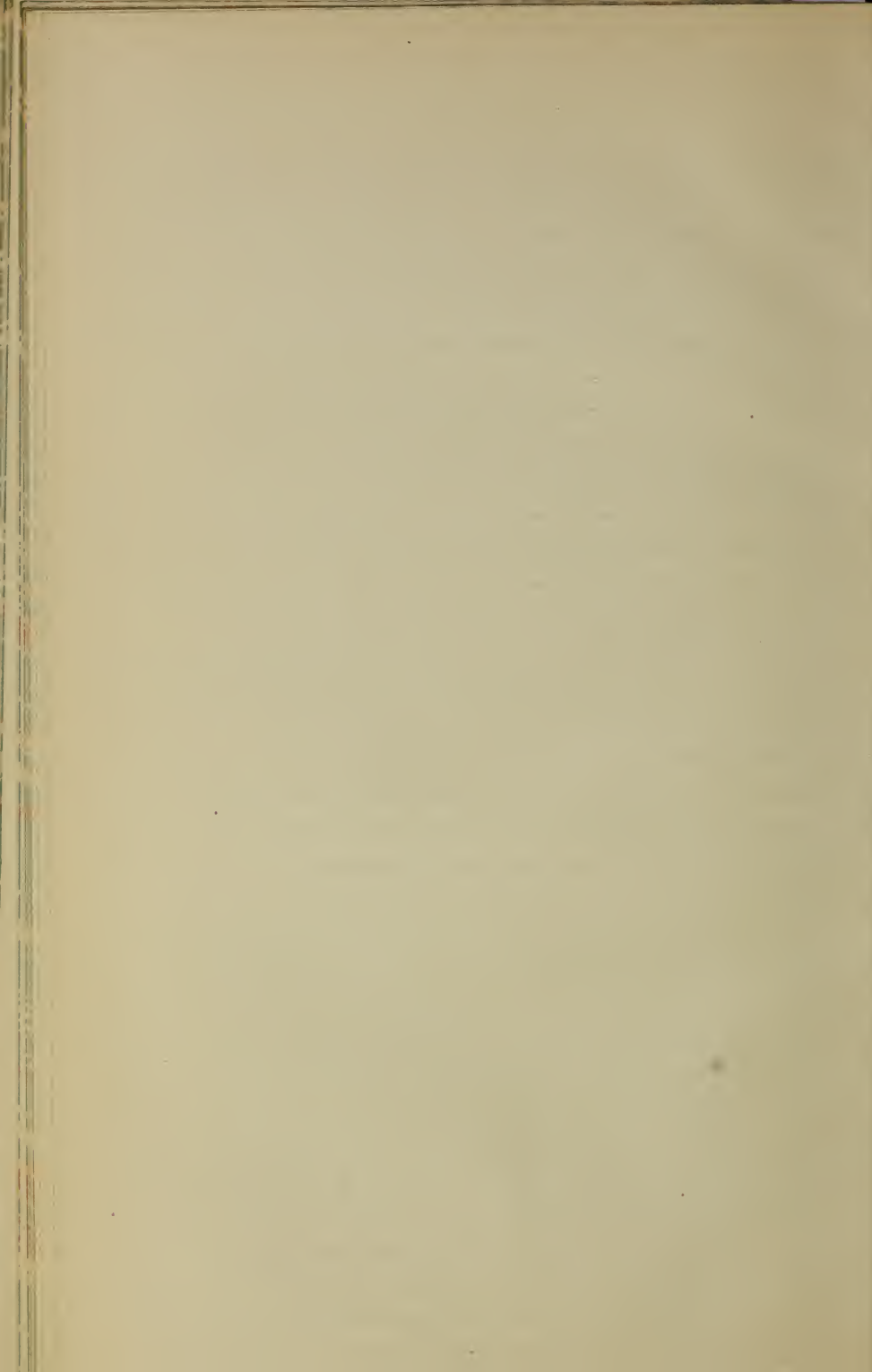
- No. 1. On the food habits of birds. AG. 422 : 1  
 No. 2. On the English sparrow. AG. 422 : 2  
 No. 3. On the economic relations of mammals. AG. 422 : 3  
 No. 4. Instructions for the collection of stomachs. AG. 422 : 4  
 No. 5. To rice growers. AG. 422 : 5  
 No. 6. Receipt for schedules on English sparrows. AG. 422 : 6  
 No. 7. To postmasters in relation to English sparrows. AG. 422 : 7  
 No. 8. On the geographic distribution and migration of North American birds for 1887. AG. 422 : 8  
 No. 9. On gophers. AG. 422 : 9  
 No. 10. On killdeer plover. [Inquiry.] 1 p. AG. 422 : 10  
 No. 11. Merriam, Dr. C. H. Brief directions for the measurement of small animals and the preparation of museum skins. 1889. 4 pp., i pl. AG. 422 : 11  
 No. 12. Directions for the collection of stomachs of birds. Apr. 25, 1891. 3 pp. AG. 422 : 12  
 No. 13-14. (Office stationery) AG. 422 : 13-14

## NORTH AMERICAN FAUNA.

- No. 1. Merriam, C. H. Revision of the North American pocket mice. 36 pp., iv pls. AG. 423 : 1  
 No. 2. *Same*. Description of fourteen new species and one new genus of North American mammals. 52 pp., viii pls., vii figs. AG. 423 : 2







- No. 3. Merriam, C. H., and L. Stejneger. Results of a biological survey of the San Francisco Mountain region and desert of the Little Colorado, Arizona. 136 pp., xiv pls., v maps. AG. 423 : 3
- No. 4. *Same*. Descriptions of twenty-six new species of North American mammals. 60 pp., iii pls., iii figs. AG. 423 : 4
- No. 5. *Same*. Results of a biological reconnaissance of south-central Idaho, and descriptions of a new genus and two new species of North American mammals. 132 pp., iv pls. AG. 423 : 5
- No. 6. [Not yet published] . . . . . AG. 423 : 6
- No. 7. The Death Valley Expedition: A biological survey of parts of California, Nevada, Arizona, and Utah. Part 2. Reports on birds, by Fisher, A. K.; reptiles and Batrachians, by L. Stejneger; fishes, by C. H. Gilbert; insects, by C. V. Riley; mollusks, by R. E. C. Stearns; desert trees and shrubs, by C. H. Merriam; desert cactuses, by C. H. Merriam; and yuccas, by C. H. Merriam; and list of localities of the region traversed, by T. S. Palmer. May, 1893. 402 pp., xiv pls., v maps. AG. 423 : 7
- No. 8. Monographic revision of the pocket gophers. Family Geomyidæ, exclusive of the species of *Thomomys*. Jan., 1895. 258 pp., xix pls., 4 maps, lxxi figs. AG. 423 : 8

#### DIVISION OF POMOLOGY.

[The Division of Pomology was established in 1886 with H. E. Van Deman as Chief. The annual reports of the Chief are bound with those of the Commissioner or Secretary.]

#### ANNUAL REPORTS.

1886. [H. E. Van Deman, Chief], in Annual Report Commissioner of Agriculture for 1886, pp. 259-276.
1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 627-652, ix pls.
1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 565-595, x pls.
1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 433-451, x pls.
1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 409-424, ix pls.
1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 379-404, ix pls.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 247-280, xiii pls.
1893. [W. A. Taylor, Assistant Chief], in Annual Report Secretary of Agriculture for 1893, pp. 277-296, ix pls.
1894. [S. B. Heiges, Chief], in Annual Report Secretary of Agriculture for 1894, pp. 205, 206.

#### BULLETINS.

- No. 1. Reasoner, P. W., and W. G. Klee, Report on the condition of tropical and semitropical fruits in the United States in 1887. 1888. 149 pp., iii pls. AG. 431 : 1
- No. 2. Lyon, T. T. Report on the adaptation of Russian and other fruits to the extreme northern portion of the United States. 1888. 64 pp. AG. 431 : 2

- No. 3. Munson, T. V. Classification and generic synopsis of the wild grapes of North America. 1890. 14 pp. AG. 431 : 3
- No. 4. King, W. R. Report on the relative merit of various stocks for the orange; with notes on Mal di Goma and the mutual influence of stock and scion. 1891. 21 pp. AG. 431 : 4

## CIRCULARS.

- No. 1. Letter of inquiry to fruit growers. 1 p. . . . . AG. 432 : 1
- No. 2. Directions for selecting, preparing, and sending specimens of fruits. 1 p. AG. 432 : 2
- No. 3. Circular of inquiry relative to apple culture. 4 pp. AG. 432 : 3
- No. 4. Circular of inquiry relative to small fruit culture. 23 pp. AG. 432 : 4
- No. 5. Circular of inquiry relative to nut culture. 7 pp. . AG. 432 : 5
- No. 6. Circular to orange growers, making inquiries regarding the relative merits of sour and sweet stock. 4 pp. AG. 432 : 6
- No. 7. Circular of inquiry relative to peach culture. 4 pp. AG. 432 : 7
- No. 8. Circular of inquiry relative to grape culture. 4 pp AG. 432 : 8

## DIVISION OF RECORDS AND EDITING.

[Since March 1, 1892, the Division of Records and Editing has issued monthly a list of new publications and reprints from previous issues of the Department of Agriculture. This list is mailed to all applicants.]

The organization of this division dates from the act of appropriation of July 14, 1890. Geo. Wm. Hill was appointed Chief. In July, 1895, the name of the division was changed from Division of Records and Editing to Division of Publications. The annual reports of the chief of the division are bound with those of the Secretary of Agriculture, and are also issued in an independent pamphlet form, known as author's edition.]

## ANNUAL REPORTS.

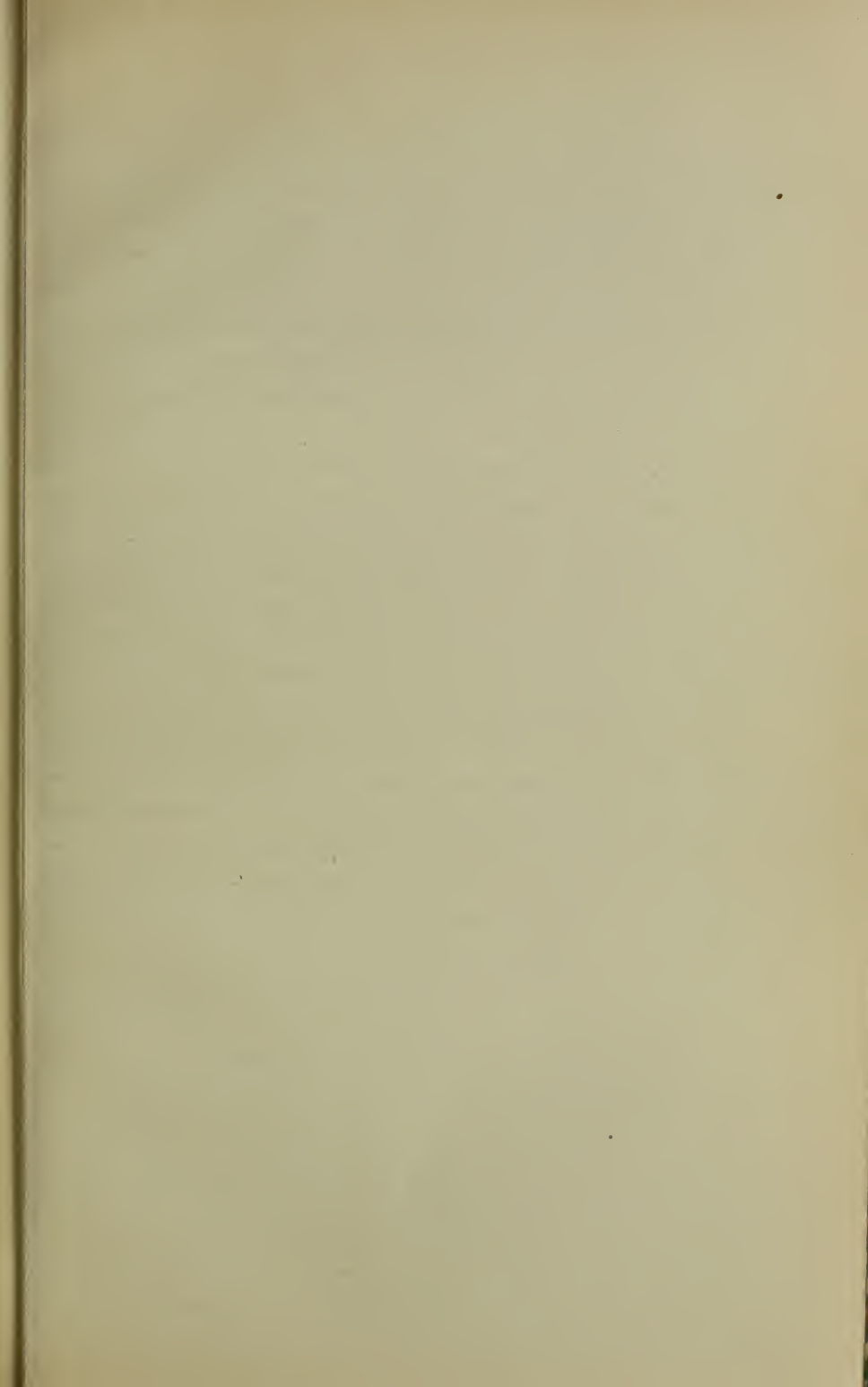
1890. [George William Hill, Chief], in Annual Report Secretary of Agriculture for 1890, pp. 437-447.
1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 489-498.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 497-508.
1893. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 395-408.
1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 171-184.

## OFFICE OF ROAD INQUIRY.

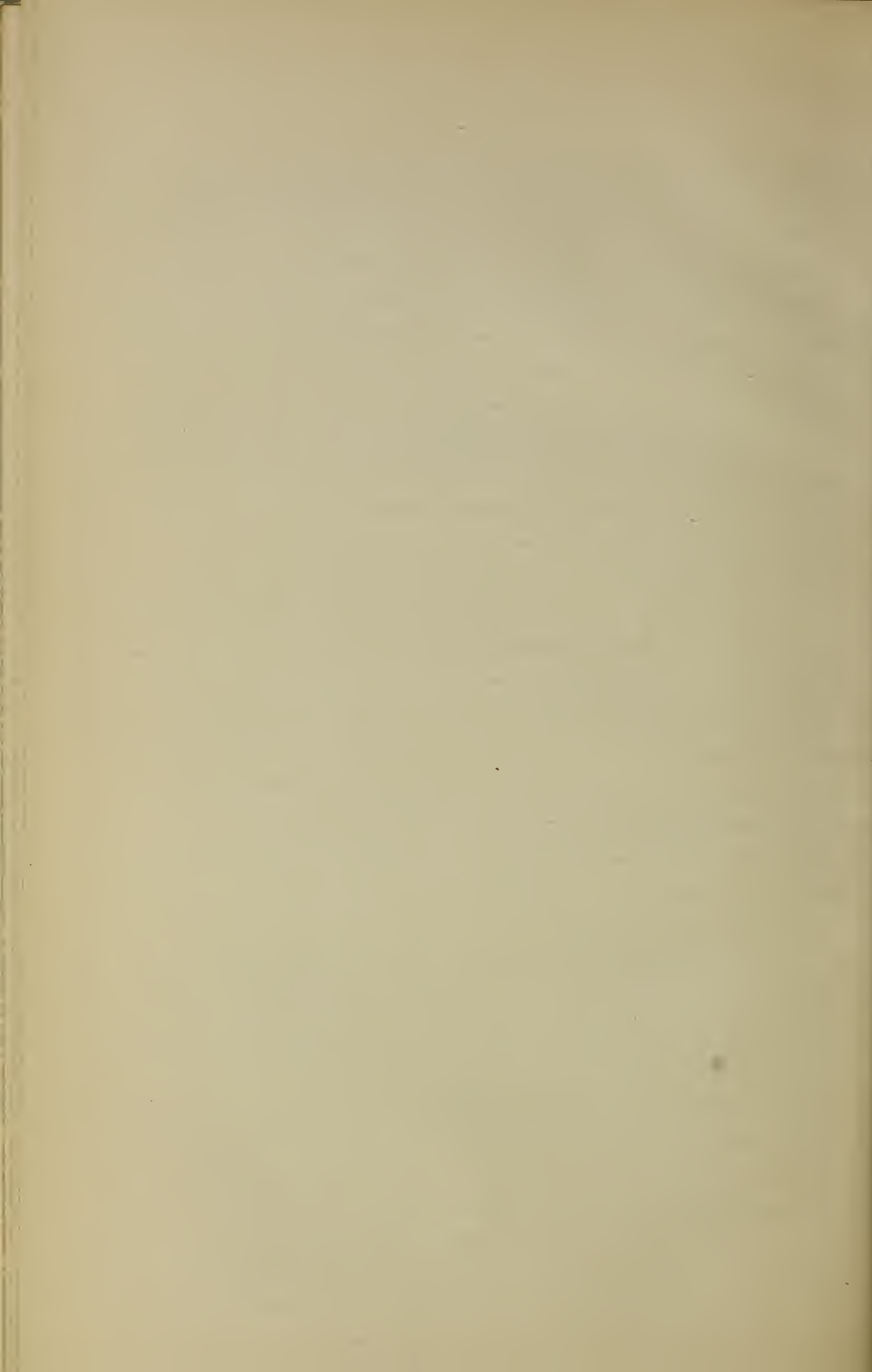
[These reports, the first of which was made in 1893, by Roy Stone, Special Agent and Engineer, are included in the Annual Reports of the Secretary of Agriculture, and are also printed separately in pamphlet form.]

## ANNUAL REPORTS.

1893. [Roy Stone, Special Agent and Engineer], in Annual Report Secretary of Agriculture for 1893, pp. 584-592.
1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 217, 218.







## BULLETINS.

- No. 1. Stone, R. (compiler). State laws relating to the management of roads, enacted in 1888-1893. Apr., 1894. 95 pp. AG. 451 : 1
- No. 2. Proceedings of the Minnesota Good-Roads Convention, Jan. 1894. 16 pp. AG. 451 : 2
- No. 3. Sheffield, O. H. Improvement of the road system of Georgia. Apr., 1894. 31 pp. AG. 451 : 3
- No. 4. Branner, J. C. Report on road-making materials in Arkansas. Apr., 1894. 11 pp. AG. 451 : 4
- No. 5. Information regarding road materials and transportation rates in certain States west of the Mississippi River. June, 1894. 24 pp. AG. 451 : 5
- No. 6. Information regarding roads, road materials, and freight rates in certain States north of the Ohio River. June, 1894. 30 pp. AG. 451 : 6
- No. 7. Information regarding roads and road making in certain Eastern and Southern States (furnished by officials of the various railway companies). July, 1894. 29 pp, v maps. AG. 451 : 7
- No. 8. Stone, R. Earth roads: hints on their construction and repair. June, 1894. 20 pp. AG. 451 : 8
- No. 9. Burrough, E. State aid in road building in New Jersey. July, 1894. 20 pp., i pl. AG. 451 : 9
- No. 10. Proceedings of the National Road Conference, held at Asbury Park, N. J., July 5-6, 1894. Dec. 1894. 63 pp., iii figs. AG. 451 : 10
- No. 11. Proceedings of the Virginia Good-Roads Convention, held in Richmond, Va., Oct. 18, 1894. Feb., 1895. 62 pp., i fig. AG. 451 : 11
- No. 12. Wide tires: laws of certain States relating to their use, and other pertinent information. Apr., 1895. 16 pp. AG. 451 : 12
- No. 13. Kentucky highways: history of the old and new systems. Apr., 1895. 24 pp. AG. 451 : 13
- No. 14. Good roads: extracts from messages of governors. June, 1895. 24 pp. AG. 451 : 14
- No. 15. Proceedings of the Good-Roads Convention of Texas, held at Houston, Tex., Feb. 19, 1895. July, 1895. 24 pp. AG. 451 : 15
- No. 16. Notes on the employment of convicts in connection with road building. June, 1895. 16 pp. AG. 451 : 16

## CIRCULARS.

- No. 1. Circular letter to the governors of States and Territories requesting cooperation with Office of Road Inquiry. AG. 452 : 1
- No. 2. *Same*, to the secretaries of state . . . . . AG. 452 : 2
- No. 3. *Same*, to the Members of Congress . . . . . AG. 452 : 3
- No. 4. *Same*, to the State geologists . . . . . AG. 452 : 4
- No. 5. *Same*, to the railroad presidents . . . . . AG. 452 : 5
- No. 6. General circular of inquiry . . . . . AG. 452 : 6
- No. 7. Request for information, etc. [Copy not preserved by office.] AG. 452 : 7
- No. 8. *Same* . . . . . AG. 452 : 8

- No. 9. Circular relating to road conference at Asbury AG. 425 : 9  
Park, N. J.
- No. 10. Circular of a temporary character. [Copy not pre- AG. 452 : 10  
served by office.]
- No. 11. *Same* ..... AG. 452 : 11
- No. 12. Circular addressed to the statistical correspond- AG. 452 : 12  
ents of the office.
- No. 13. List of publications of the Office of Road Inquiry. AG. 452 : 13
- No. 14. Stone, R. Addresses on road improvement. Nov., AG. 452 : 14  
1894. 15 pp.
- No. 15. *Same*. An act to provide for the construction of AG. 452 : 15  
roads by local assessment, county and State aid, passed  
by the New York assembly. Dec., 1894. 3 pp.
- No. 16. Highway taxation: comparative results of labor AG. 452 : 16  
and money systems. Nov. 9, 1894. 5 pp.

#### SEED DIVISION.

[The Seed Division, like the Department of Agriculture, is the outgrowth of the efforts of Henry L. Ellsworth, Commissioner of Patents, who, in 1836, 1837, and 1838, collected and distributed gratuitously seeds and plants. Congress recognized the work by the passage of an act on March 3, 1839, appropriating \$1,000, to be used in part for the purpose of collecting and distributing seeds. The agricultural section of the Patent Office was created a Department of Agriculture on May 15, 1862, and the Seed Division was established June 16, 1880.]

#### ANNUAL REPORTS.

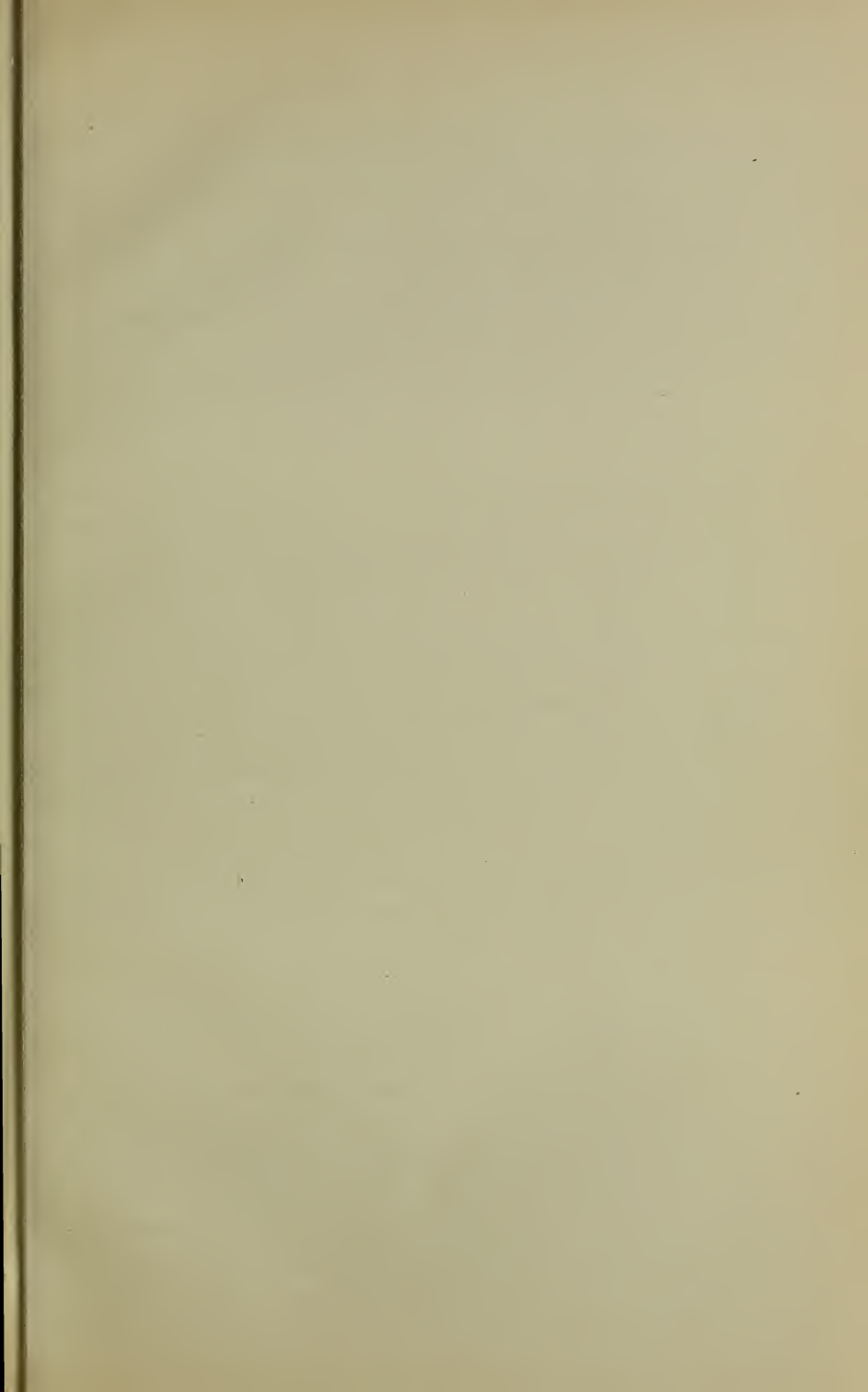
1885. [William M. King, Chief], in Annual Report Commissioner of Agriculture for 1885, pp. 47-61.
1886. *Same*, in Annual Report Commissioner of Agriculture for 1886, pp. 47-68.
1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 653-671.
1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 643-661.
1889. [A. T. Longley, Chief], in Annual Report Secretary of Agriculture for 1889, pp. 477-484.
1890. [J. B. Peck, Chief], in Annual Report Secretary of Agriculture for 1890, pp. 425-436.
1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 451-462.
1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 471-494.
1893. [M. E. Fagan, Chief], in Annual Report Secretary of Agriculture for 1893, pp. 389-392.
1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 187, 188.

#### SILK SECTION.

[Discontinued June 30, 1891.]

#### ANNUAL REPORTS.

1889. [Philip Walker, Chief], in Annual Report Secretary of Agriculture for 1889, pp. 453-476.
1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 265-275, vi pls.







- No. 1. Walker, Philip. How to raise silkworms; a brief manual of instructions, abridged from Bulletin No. 9 of the Division of Entomology. Feb., 1890. 16 pp., x figs. AG. 46 : 1

### DIVISION OF STATISTICS.

[The Division of Statistics was organized in 1863, with Lewis Bollman as Statistician. The annual reports of this division are bound with those of the Commissioner or Secretary.]

### ANNUAL REPORTS.

1863. [Lewis Bollman, Chief], in Annual Report Commissioner of Agriculture for 1863, pp. 579-621.  
 1864. *Same*, in Annual Report Commissioner of Agriculture for 1864, pp. 564-605.  
 1865. [J. R. Dodge, Chief], in Annual Report of Commissioner of Agriculture for 1865, pp. 54-87.  
 1866. *Same*, in Annual Report Commissioner of Agriculture for 1866, pp. 51-96.  
 1867. *Same*, in Annual Report Commissioner of Agriculture for 1867, pp. 77-128.  
 1868. *Same*, in Annual Report Commissioner of Agriculture for 1868, pp. 16-58.  
 1869. *Same*, in Annual Report Commissioner of Agriculture for 1869, pp. 20-59.  
 1870. *Same*, in Annual Report Commissioner of Agriculture for 1870, pp. 24-64.  
 1871. *Same*, in Annual Report Commissioner of Agriculture for 1871, pp. 13-68.  
 1872. *Same*, in Annual Report Commissioner of Agriculture for 1872, pp. 9-112.  
 1873. *Same*, in Annual Report Commissioner of Agriculture for 1873, pp. 15-151.  
 1874. *Same*, in Annual Report Commissioner of Agriculture for 1874, pp. 15-121.  
 1875. *Same*, in Annual Report Commissioner of Agriculture for 1875, pp. 17-114.  
 1876. *Same*, in Annual Report Commissioner of Agriculture for 1876, pp. 87-282.  
 1877. *Same*, in Annual Report Commissioner of Agriculture for 1877, pp. 149-228.  
 1878. [Charles Worthington, Chief], in Annual Report Commissioner of Agriculture for 1878, pp. 257-320.  
 1879. *Same*, in Annual Report Commissioner of Agriculture for 1879, pp. 127-185.  
 1880. *Same*, in Annual Report Commissioner of Agriculture for 1880, pp. 185-233.  
 1881-82. [J. R. Dodge, Chief], in Annual Report Commissioner of Agriculture for 1881-82, pp. 577-676.  
 1883. *Same*, in Annual Report Commissioner of Agriculture for 1883, pp. 251-423.  
 1884. *Same*, in Annual Report Commissioner of Agriculture for 1884, pp. 419-565.  
 1885. *Same*, in Annual Report Commissioner of Agriculture for 1885, pp. 345-430.

1886. [J. R. Dodge, Chief], in Annual Report Commissioner of Agriculture for 1886, pp. 359-458.  
 1887. *Same*, in Annual Report Commissioner of Agriculture for 1887, pp. 523-604, diagrs. A-H.  
 1888. *Same*, in Annual Report Commissioner of Agriculture for 1888, pp. 405-476.  
 1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 201-272.  
 1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 287-360, iii maps.  
 1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 173-340.  
 1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 403-470.  
 1893. [Henry A. Robinson, Chief], in Annual Report Secretary of Agriculture for 1893, pp. 465-566.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 113-122.

## MONTHLY REPORTS.

- V. 1, Nos. 1-14, new series. Oct., 1883-Dec., 1884. By AG. 471, v. 1  
 J. R. Dodge, Statistician.

## CONTENTS.

No. 1. Report on condition of crops, yield of grain per acre, and on freight rates of transportation companies (with correspondence of State agents). Oct., 1883. 28 pp.

No. 2. Report on yield of crops per acre, on the progress of sorghum growing, the crops of Europe, and on freight rates of transportation companies. Nov., 1883. 59 pp.

No. 3. Report of the crops of the year, of cereal production in Europe, and freight rates of transportation companies. Dec., 1883. 74 pp.

No. 4. Report upon the numbers and values of farm animals, on certain causes affecting wages of farm labor, and on freight rates of transportation companies. Feb., 1884. 56 pp.

No. 5. Report on the distribution and consumption of corn and wheat and the rates of transportation of farm products. Mar., 1884. 44 pp.

No. 6. Report of the area of winter grain, the condition of farm animals, and freight rates of transportation companies. Apr., 1884. 48 pp.

No. 7. Report of the condition of winter grain, the progress of cotton planting, and estimates of cereals for 1883, with freight rates of transportation companies. May, 1884. 36 pp.

No. 8. Report on the acreage of spring grain and cotton, the condition of winter wheat, and European grain prospects, with freight rates of transportation companies. June, 1884. 39 pp.

No. 9. Report on the area of corn, potatoes, and tobacco, and the condition of growing crops, and on rates of transportation. July, 1884. 59 pp.

No. 10. Report on the condition of growing crops, and on rates of transportation. Aug., 1884. 36 pp.

No. 11. Report on condition of crops, on wheat in India, and on freight rates of transportation companies. Sept., 1884. 87 pp.

No. 12. Report on condition of crops, yield of grain per acre, and on freight rates of transportation companies. Oct., 1884. 44 pp.

No. 13. Report on yield of crops per acre, on agriculture in Mexico, and on freight rates of transportation companies. Nov., 1884. 94 pp.

No. 14. Report of the crops of the year, and of freight rates of transportation companies. Dec., 1884. 60 pp.

- V. 2, Nos. 15-25. Jan.-Dec., 1885. Index.....AG. 471, v. 2

## CONTENTS.

No. 15. Report upon the numbers and values of farm animals, on the cotton crop and its distribution, and on freight rates of transportation companies. Jan. and Feb., 1885. 64 pp.

No. 16. Report on the distribution and consumption of corn and wheat, on consumption of cereals in Europe, and on freight rates of transportation companies. Mar., 1885. 47 pp.

No. 17. Report of the area of winter grain, the condition of farm animals, and on freight rates of transportation companies. Apr., 1885. 80 pp.

No. 18. Report of the condition of winter grain, the progress of cotton planting, and wages of farm labor; also the freight rates of transportation companies. May, 1885. 60 pp.

No. 19. Report of acreage of spring grain and cotton, the condition of winter wheat, and European grain prospects, with freight rates of transportation companies. June, 1885. 56 pp.

No. 20. Report on the area of corn, potatoes, and tobacco, and condition of growing crops, and on rates of transportation. July, 1885. 64 pp.

No. 21. Report on the condition of growing crops, of international dairy statistics, and on rates of transportation. Aug., 1885. 70 pp.

No. 22. Report on condition of crops in America and Europe, and on freight rates of transportation companies. Sept., 1885. 58 pp.

No. 23. Report on the condition of crops, yield of grain per acre, and on freight rates of transportation companies. Oct., 1885. 55 pp.

No. 24. Report on yield of crops per acre, and on freight rates of transportation companies. Nov., 1885. 54 pp.

No. 25. *Same.* Dec., 1885. 55 pp.

V. 3, Nos. 26-36. Jan.-Dec., 1886. 580 pp. Index . . . . . AG. 471, v. 3

## CONTENTS.

No. 26. Report upon the numbers and values of farm animals, on the cotton crop and its distribution, and on freight rates of transportation companies. Jan. and Feb., 1886. pp. 1-56.

No. 27. Report on the distribution and consumption of corn and wheat, on production of European wheat, and on freight rates of transportation companies. Mar., 1886. pp. 59-108.

No. 28. Report of the area of winter grain, the condition of farm animals, and on freight rates of transportation companies. Apr., 1886. pp. 109-170.

No. 29. Report of the condition of winter grain, the progress of cotton planting, and on freight rates of transportation companies. May, 1886. pp. 173-218.

No. 30. Report of acreage of spring wheat and cotton, the condition of winter grain, and the world's supply of wheat, with freight rates of transportation companies. June, 1886. pp. 221-263.

No. 31. Report on the area of corn, potatoes, and tobacco, and condition of growing crops, and on freight rates of transportation companies. July, 1886. pp. 267-308.

No. 32. Report on the condition of growing crops and on freight rates of transportation companies. Aug., 1886. pp. 311-360.

No. 33. Report on condition of crops in America and Europe, and on freight rates of transportation companies. Sept., 1886. pp. 363-419.

No. 34. Report on condition of crops, yield of grain per acre, and freight rates of transportation companies. Oct., 1886. pp. 423-460.

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No. 69. Report on the crops of the year, and on freight rates of transportation companies. (With articles on farm prices, resources and productions of south Florida, prices of public lands in Mexico, the agricultural syndicates of France, and crops of Sweden, 1889.) Dec., 1889. Pp. 485-548.

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No. 71. Report on distribution and consumption of corn and wheat, and on freight rates of transportation companies. (With articles on agricultural depression and its causes, and the world's wheat crop for 1889.) Mar., 1890. Pp. 65-116.

No. 72. Report of the condition of winter grain, the condition of farm animals, and on freight rates of transportation companies. (With article on official reports on foreign crops, and notes on the cotton crop of the Punjab for 1889.) Apr., 1890. Pp. 117-174.

No. 73. Report of the condition of winter grain, the progress of cotton planting, and wages of farm labor; also on the freight rates of transportation companies. May, 1890. (With articles on sugar production in Europe, and foreign distribution of wheat and corn surplus.) Pp. 175-230.



No. 74. Report on the acreage of wheat and cotton, and condition of cereal crops, and on freight rates of transportation companies. June, 1890. (With articles on cotton production and trade of the world, domestic and foreign wools, course of agricultural prices, and farmers' milling companies.) Pp. 231-310.

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No. 80. Report on the crops of the year and on freight rates of transportation companies. Dec., 1890. (With articles on farm prices, New York Dairymen's Association meeting, foreign markets for dairy products, financial condition of California farmers, and peanut production.) Pp. 591-652. Jan., 1891.

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No. 82. Report on distribution and consumption of corn and wheat, and on freight rates of transportation companies. Mar., 1891. (With articles on agricultural contributions to international commerce, comparative statistics of wheat exportation, and legal weights per bushel.) Pp. 57-104.

No. 83. Report of the condition of winter grain, the condition of farm animals, and on freight rates of transportation companies. Apr., 1891. (With articles on the permanency of agricultural production and rural cooperation banks in Russia.) Pp. 105-158.

No. 84. Report of the condition of winter grain, the progress of cotton planting; also on the freight rates of transportation companies. May, 1891. (With articles on better times for farmers, recent facts regarding ramie, and agriculture in Brazil.) Pp. 159-238.

No. 85. Report on the acreage of wheat and cotton, and condition of cereal crops, and on freight rates of transportation companies. June, 1891. (With articles on official statistics of foreign crops, and agriculture of Chile.) Pp. 239-302.

No. 86. Report on the area of corn, potatoes, and tobacco, and condition of growing crops, and on freight rates of transportation companies. July, 1891. (With articles on European rye production, the cooperative credit unions of Germany, and agriculture in Peru.) Pp. 303-374.

No. 87. Report on the condition of growing crops, and on freight rates of transportation companies. Aug., 1891. (With articles on the Indian wheat crop of 1891, and the Raiffeisen Loan Associations of Germany.) Pp. 375-437.

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No. 90. Report on yield of crops per acre, and on freight rates of transportation companies. Nov., 1891. (With an article on agriculture in Paraguay.) Pp. 591-634.

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No. 92. Report upon the numbers and values of farm animals, and on freight rates of transportation companies. Jan. and Feb., 1892. (With cotton returns for Feb., and an article on new railway construction, 1891.) Pp. 44. Feb., 1892.

No. 93. Report on distribution and consumption of corn and wheat, and on freight rates of transportation companies. Mar., 1892. (With articles on indications *v.* estimates, more over-production, and official statistics of foreign countries.) Pp. 45-92.

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No. 98. Report of the Statistician, Aug., 1892. Contents: Primary prices of farm products; Foreign trade in agricultural products, 1892; European crop prospects for Aug.; Consular notes on foreign agriculture; Transportation rates. Pp. 297-327.

No. 99. *Same.* Sept. and Oct., 1892. Contents: Farm prices in two centuries; The ramie machine trials at New Orleans; Indian wheat crop of 1892; Notes of domestic and foreign trade and industry; European crop report for Sept., and transportation rates. Pp. 329-376.

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No. 103. *Same.* Apr., 1893. Contents: Condition of winter grain; Notes concerning wheat; Condition of farm animals; European crop report; Transportation rates. Pp. 97-140.

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No. 124. Distribution and consumption of wheat in the United States; Consumption of wheat per capita in the United States; The wheat crop of the world; Prices of wheat since 1865; Wholesale prices of principal agriculture products, etc.; Report of European agent; Transportation rates. Mar., 1895. Pp. ii, 59-106.

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No. 127. Crop report for June; Cotton, increase and decrease of acreage, 1895; Temperature and rainfall; Report of European agent; Notes on foreign agriculture; transportation charges. June, 1895. Pp. ii, 231-284.

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## MISCELLANEOUS REPORTS.

- No. 1. Dodge, C. R. Report on flax, hemp, ramie, and jute, with considerations upon hemp and flax culture in Europe; a report on the ramie machine trials of 1889 in Paris, and the present status of fiber industries in the United States. Apr., 1890. 104 pp. AG. 472 : 1
- No. 2. Barnes, A. Report on the agriculture in South America, with maps and latest statistics of trade. May, 1892. 189 pp. AG. 472 : 2
- No. 3. Peters, E. T. Cooperative credit associations in certain European countries and their relation to agricultural interests. May, 1892. 117 pp. AG. 472 : 3
- No. 4. Dodge, J. R. Wages of farm labor in the United States. Results of nine statistical investigations, from 1866 to 1892, with extensive inquiries concerning wages from 1840 to 1865. May, 1892. 69 pp. AG. 472 : 4
- No. 5. *Same.* Production and distribution of the principal agricultural products of the world. Mar., 1893. 205 pp. AG. 472 : 5
- No. 6. Austin, A. Rice: its cultivation, production, and distribution in the United States and foreign countries. With a chapter on the rice soils of South Carolina, by M. Whitney. Apr., 1893. 89 pp. AG. 472 : 6
- No. 7. Hoyt, J. W. An agricultural survey of Wyoming. May, 1893. 72 pp., 1 map. AG. 472 : 7
- No. 8. Peters, E. T. Recent features of our foreign trade. Feb., 1894. 24 pp. AG. 472 : 8

## MONTHLY CROP SYNOPSIS.

[A four-page summary of condition, prospects, etc., of crops, and number, etc., of farm animals, issued soon after the 10th of each month.]

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## SPECIAL REPORTS.

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				9½ by 12½ inches.
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1892.	Report on crops of the year.	Dec.	28 pp.	AG. 473 : 8

1893. Report upon the numbers and values of farm animals, AG. 473 : 9 and on cotton distribution. Jan.-Feb. 20 pp.  
 1898. Report on distribution and consumption of corn and wheat. Mar. 16 pp. AG. 473 : 10

#### DIVISION OF VEGETABLE PATHOLOGY.

[This division was made a section of Plant Pathology in the Division of Botany July 1, 1886, and became a separate division in 1890. The annual reports are bound with the Annual Reports of the Secretary of Agriculture, and are also issued in separate pamphlet form in limited editions, known as author's editions. In binding these pamphlets, bind as many as will make a convenient volume, and for book number use the AG. 48 ; followed by the dates of the pamphlets which make up the volumes; thus, AG. 48 : 887-89.]

#### ANNUAL REPORTS.

1887. [F. L. Scribner, Chief], in Annual Report Commissioner of Agriculture for 1887, pp. 323-397, xvii pls.  
 1888. [B. T. Galloway, Chief], in Annual Report Commissioner of Agriculture for 1888, pp. 325-404, xix pls., i map.  
 1889. *Same*, in Annual Report Secretary of Agriculture for 1889, pp. 397-432, ii pls., v figs.  
 1890. *Same*, in Annual Report Secretary of Agriculture for 1890, pp. 393-408, v pls.  
 1891. *Same*, in Annual Report Secretary of Agriculture for 1891, pp. 359-378, iii pls.  
 1892. *Same*, in Annual Report Secretary of Agriculture for 1892, pp. 215-245.  
 1893. *Same*, in Annual Report Secretary of Agriculture for 1893, pp. 245-276.  
 1894. *Same*, in Annual Report Secretary of Agriculture for 1894, pp. 143-150.

#### JOURNAL OF MYCOLOGY.

[A periodical, vols. 1-4 of which were printed as a private enterprise. Vol. 5, No. 1, was issued in 1885, and has been continued to date.

This journal is devoted to the study of fungi, especially in their plant relations.]

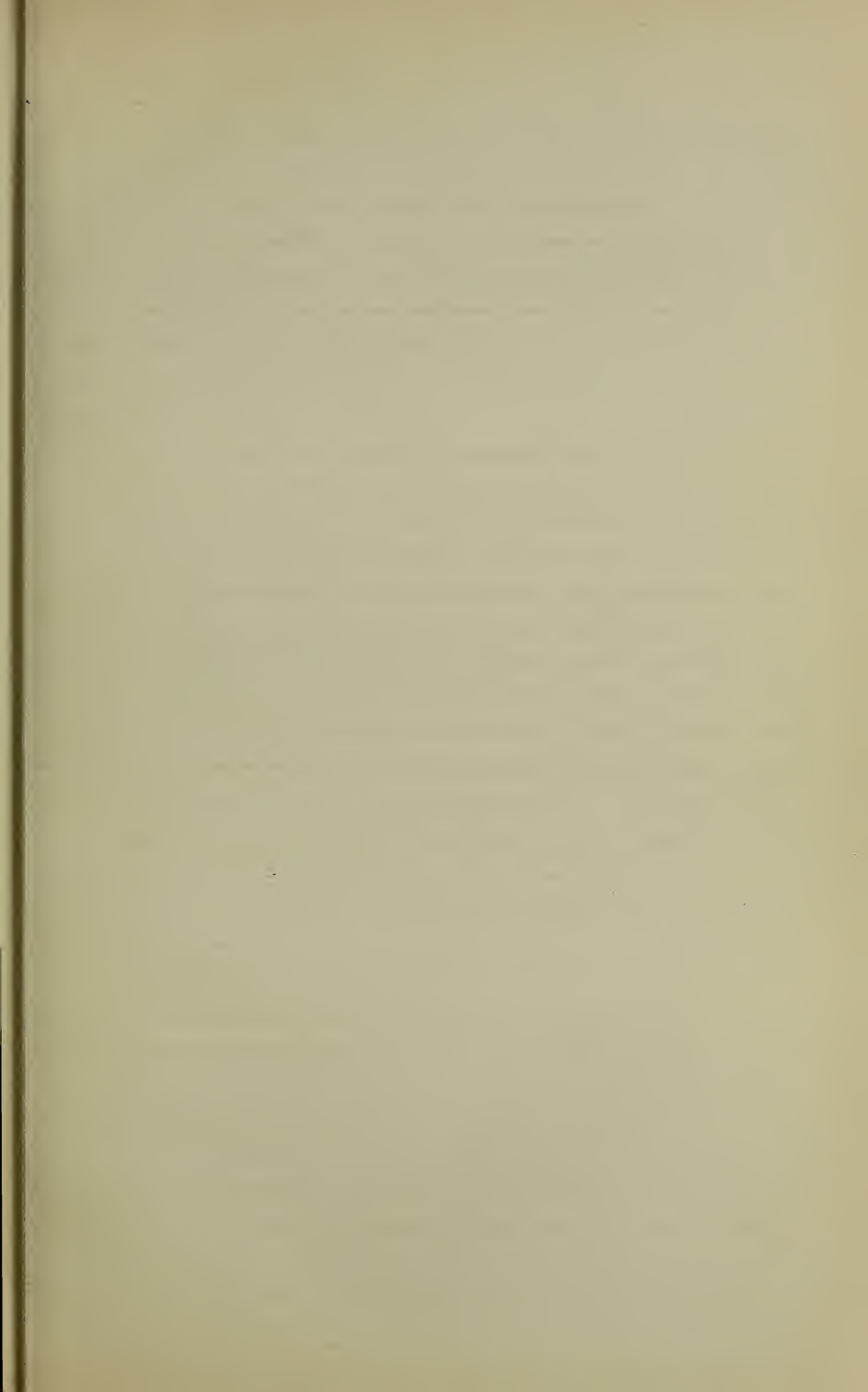
V. i-iv, inclusive, were not issued by the Department of Agriculture.

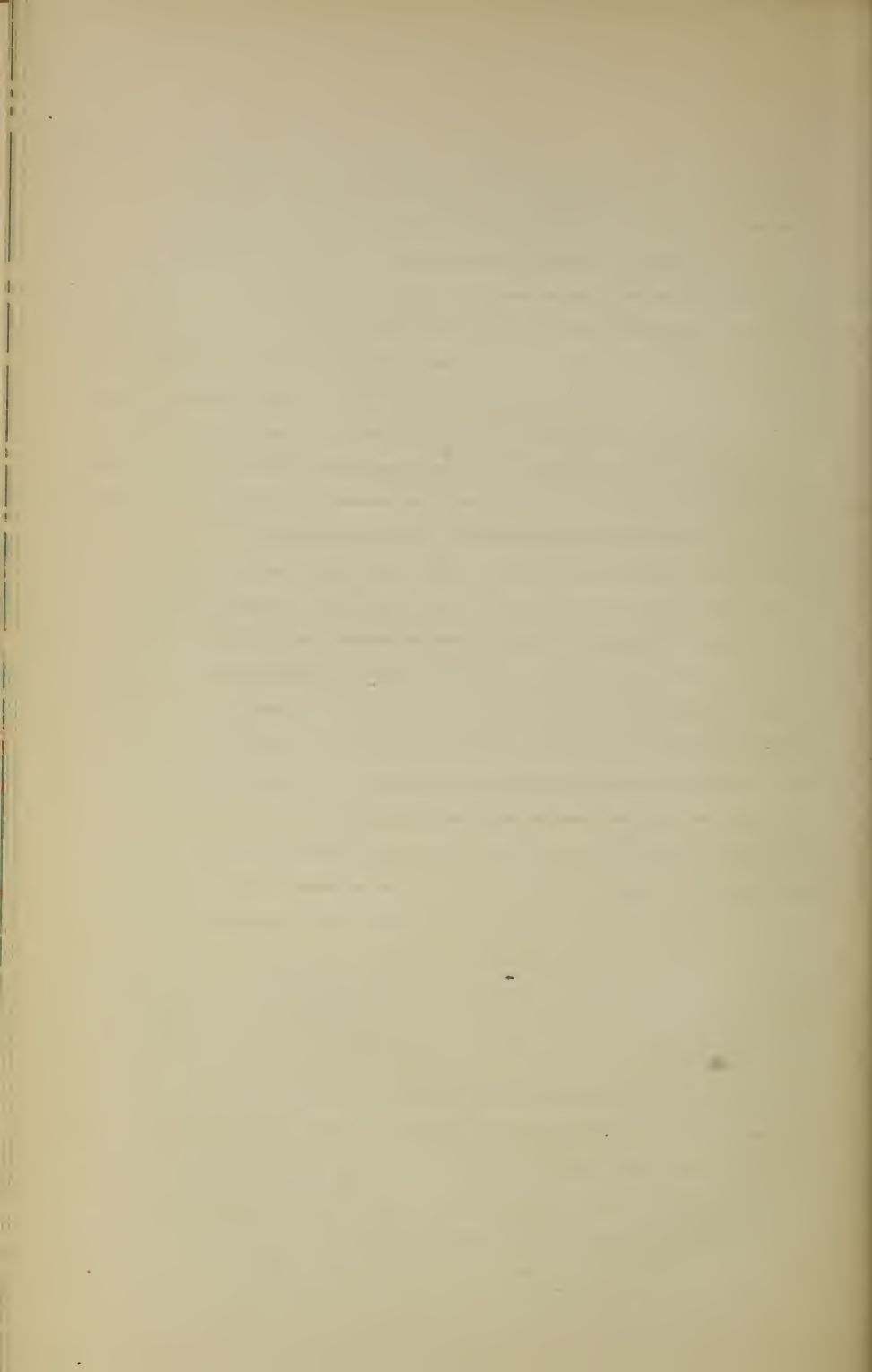
- V. v, Nos. 1-4. Apr., 1889-Nov., 1889. 249 pp., xiv pls. . . . AG. 481 : v. 5  
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#### CIRCULARS.

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\* Were issued by the then section of Vegetable Pathology, Division of Botany.





- No. 6. Treatment of the black rot of the grape. 3 pp.... AG. 482 : 6  
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 No. 9.\* Root rot of cotton. 4 pp..... AG. 482 : 9  
 No. 10.\* Treatment of nursery stock for leaf blight and powdery mildew. 8 pp., iii figs. AG. 482 : 10  
 No. 11.\* Letter of inquiry regarding losses from grape diseases and the extent to which fungicides are employed. Half sheet, 8½ by 14 inches. Dec., 1891. AG. 482 : 11  
 No. 12. *Same*, relating to the rust of wheat, oats, rye, and barley. Half sheet, 8½ by 14 inches. Dec., 1891. AG. 482 : 12  
 No. 13. Circular of inquiry relative to leaf curl of peach trees. 3 pp. AG. 482 : 13

## BULLETINS.

- No. 1. Smith, E. F. Additional evidence on the communicability of peach yellows and peach rosette. 65 pp., xxxviii pls. AG. 483 : 1  
 No. 2. Pierce, N. B. The California vine disease; a preliminary report of investigations. 222 pp., xxv pls. AG. 483 : 2  
 No. 3. Galloway, B. T. Report on the experiments made in 1891 in the treatment of plant diseases. 76 pp., viii pls. AG. 483 : 3  
 No. 4. Smith, E. F. Experiments with fertilizers for the prevention and cure of peach yellows, 1889-1892. 197 pp., xxxiii pls. AG. 483 : 4  
 No. 5. Waite, M. B. The pollination of pear flowers. 110 pp., xii pls. AG. 483 : 5  
 No. 6. Bordeaux mixture as a fungicide. 55 pp..... AG. 483 : 6

## SPECIAL REPORTS.

- Fairchild, D. G. Experiments in preventing leaf diseases of nursery stock in western New York. (From Journal of Mycology, v. 7, No. 3. Pp. 240-264.) AG. 484 : 1  
 Galloway, B. T. The effect of spraying with fungicides on the growth of nursery stock. 41 pp. AG. 484 : 2  
 Pierce, N. B. A disease of almond trees, and suggestions in regard to the treatment of *Cercospora circumscissa*. (Reprinted from Journal of Mycology, v. 7, No. 2. Pp. 68-78.) AG. 484 : 3  
 Smith, E. F. Peach rot and peach blight. (Reprinted from Journal of Mycology, v. 5, No. 3. Pp. 123-134.) AG. 484 : 4  
 Southworth, Miss E. A. A new hollyhock disease. (Reprinted from Journal of Mycology, v. 6, No. 2. Pp. 45-50.) AG. 484 : 5  
 Weed, C. M. An experiment in preventing the injuries of potato rot. (Reprinted from Journal of Mycology, v. 5, No. 3. Pp. 158-160.) AG. 484 : 6

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\* Were issued by the then section of Vegetable Pathology, Division of Botany.



## WEATHER BUREAU.

[Under an act approved Oct. 1, 1890, Congress directed "that the civilian duties now performed by the Signal Corps of the Army shall hereafter devolve upon a bureau to be known as the Weather Bureau, which, on and after July 1, 1891, shall be established in, and attached to, the Department of Agriculture."

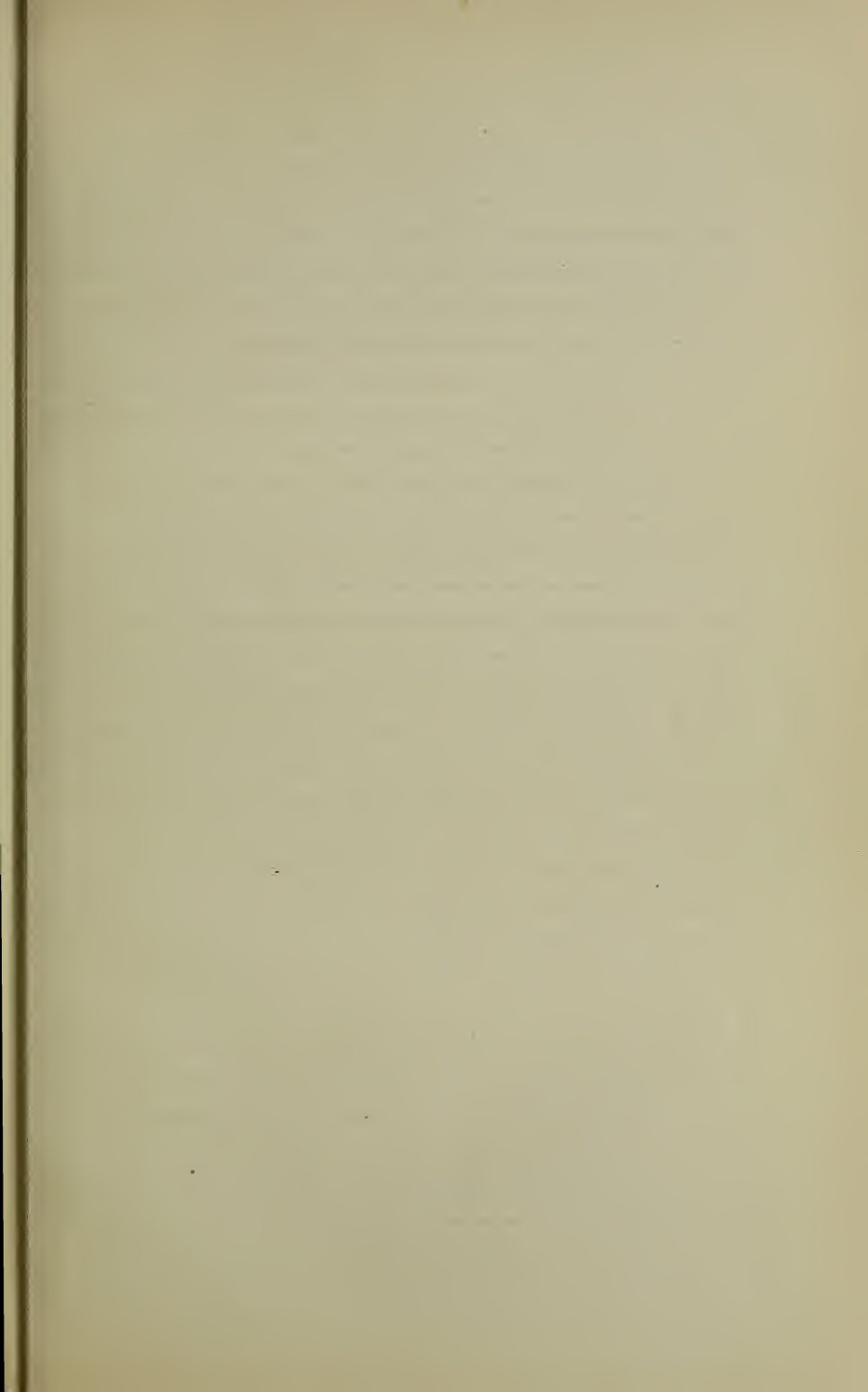
These reports since 1891 are bound with the Annual Reports of the Secretary of Agriculture, and are also issued in separate pamphlet form in limited editions.]

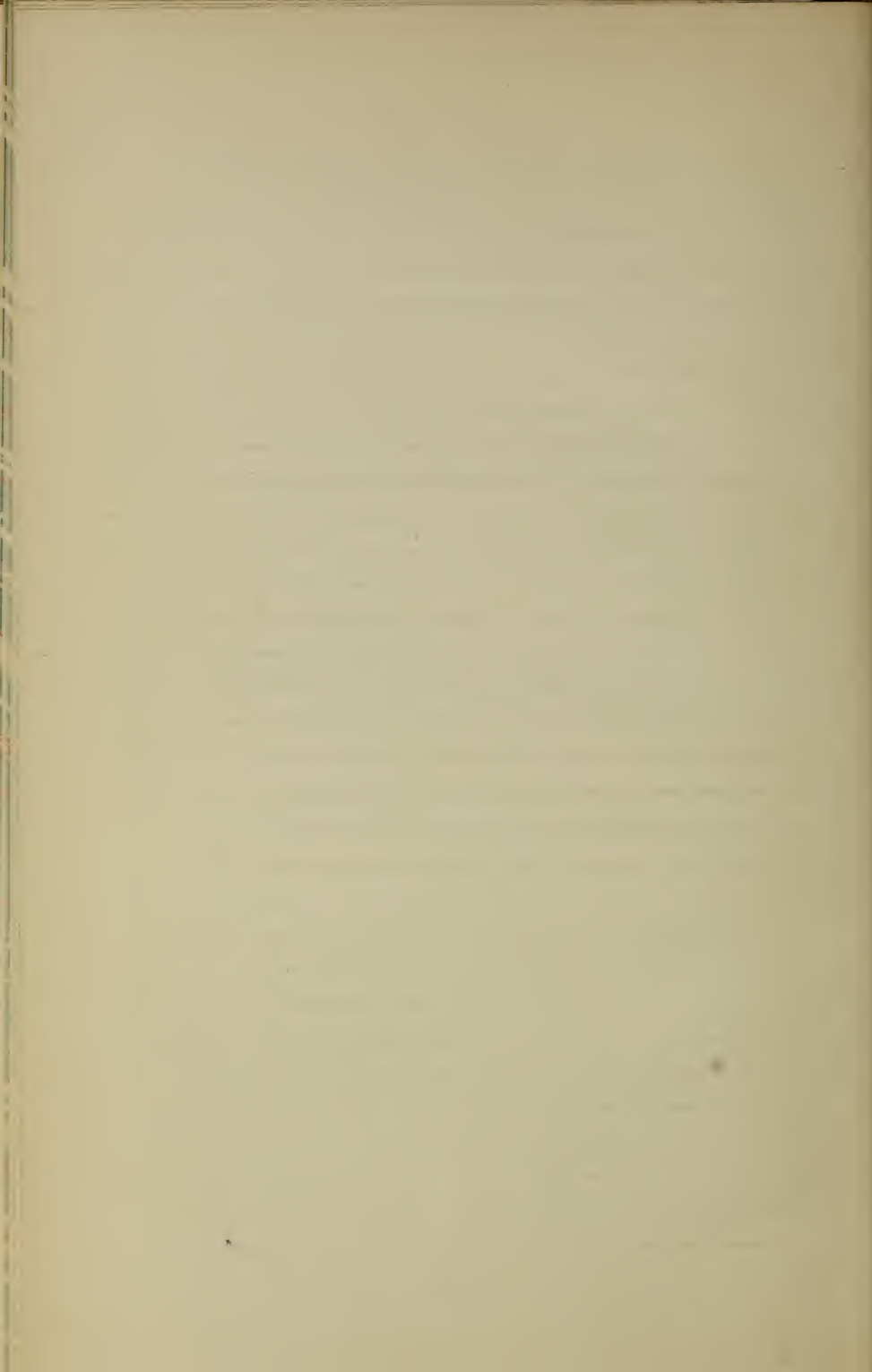
## ANNUAL REPORTS.

1891. [Mark W. Harrington, Chief.] Special Report (sum-AG.49:891,1 many of the operations of the Bureau during the three months immediately following its transfer to the Department of Agriculture, with an account of the objects and methods of its work). Oct., 1891. 26 pp.
1891. *Same*, in Annual Report Secretary of Agriculture AG.49:891 for 1891, pp. 539-631, viii pls.
1892. *Same*, in Annual Report Secretary of Agriculture AG.49:892 for 1892, pp. 551-626, iv pls.
1893. *Same*, in Annual Report Secretary of Agriculture AG.49:893 for 1893, pp. 89-122.
1894. *Same*, in Annual Report Secretary of Agriculture AG.49:894 for 1894, pp. 77-101.

## BULLETINS.

- No. 1. Harrington, M. W. Notes on the climate and meteorology of Death Valley, California. June, 1892. AG.491:1 50 pp., x figs.
- No. 2. Bigelow, F. H. Notes on a method for the discussion of magnetic observations. July, 1892. 40 pp., i pl. AG.491:2
- No. 3. Hilgard, E. W. Report on the relations of soil to climate. Aug., 1892. 59 pp. AG.491:3
- No. 4. Whitney, M. Some physical properties of soils in their relation to moisture and crop distribution. Aug., 1892. 90 pp. AG.491:4
- No. 5. King, F. H. Observations and experiments on the fluctuations in the level and rate of movement of ground water on the agricultural experiment station farm at Whitewater, Wis. Dec., 1892. 75 pp., vi pls., xxxvii figs. AG.491:5
- No. 6. Cole, F. H. The diurnal variation of barometric pressure. Dec., 1892. 32 pp. AG.491:6
- No. 7. Report of the first annual meeting of the American Association of State Weather Service, cooperating with the Weather Bureau, United States Department of Agriculture. Feb., 1893. 49 pp., vi figs. AG.491:7
- No. 8. Mell, P. H. Report on the climatology of the cotton plant. Apr., 1893. 68 pp. AG.491:8
- No. 9. Conger, N. B. Report on the forecasting of thunderstorms during the summer of 1892. 54 pp. AG.491:9
- No. 10. Hazen, H. A. The climate of Chicago. Aug., 1893. 137 pp., xxvi figs. AG.491:10
- No. 11. Fassig, O. L., ed. Report of the International Meteorological Congress, held at Chicago, Aug. 21-24, 1893. Pt. I. x, 206 pp., x pls. Pt. II. Pp. xi-xv, 207-583. xv pls. AG.491:11





- No. 12. Finley, J. P. Climatic features of the two Dakotas. AG. 491 : 12  
 No. 13. Williams, H. E. Temperatures injurious to food AG. 491 : 13  
 products in storage and during transportation, and  
 methods of protection from the same. Dec., 1894. 20 pp.  
 No. 14. Report of the third annual meeting of the Ameri- AG. 491 : 14  
 can Association of State Weather Services. Nov., 1894.  
 31 pp.  
 No. 15. McAdie, A. Protection from lightning. June, AG. 491 : 15  
 1895. 26 pp., xiii figs.

## MONTHLY WEATHER REVIEW.

[Showing issues since the establishment of the Weather Bureau in this Department, July, 1891. The previous numbers were published by the War Department. This review is a summary by months of weather conditions throughout the United States, based upon reports of nearly 3,000 regular and voluntary observers. Intended chiefly for meteorologists. 4<sup>o</sup>.]

- V. xix, Nos. 7-12. July, 1891-Dec., 1891, and supp. to  
 No. 12. 330 pp., 7 charts ..... AG. 492, v. 19  
 V. xx, Nos. 1-12. Jan., 1892-Dec., 1892, and supp. to  
 No. 12. 362 pp., 7 charts ..... AG. 492, v. 20  
 V. xxi, Nos. 1-12. Jan., 1893-Dec., 1893. 376 pp., 7  
 charts ..... AG. 492, v. 21  
 V. xxii, Nos. 1-12. Jan., 1894-Dec., 1894. 533 pp., 7  
 charts ..... AG. 492, v. 22

## SPECIAL REPORTS.

[This list includes only those reports made since 1891.]

- Bugbee, E. L. Instructions to operators on the United AG. 493 : 1  
 States seacoast telegraph lines. 24 pp., i pl.  
 Bulletin A. Dunwoody, H. H. C. Summary of interna- AG. 493 : 2  
 tional meteorological observations. Aug., 1893. 19 by  
 24 inches. 10 pp, lxi charts.  
*Same*, B. Harrington, M. W. Surface currents of the AG. 493 : 3  
 Great Lakes as deduced from the movements of bottle  
 papers during the seasons of 1892-93-94. xiv, 6 pp.,  
 vi charts. 4<sup>o</sup>.  
*Same*, C. Rainfall and snow of the United States com- AG. 493 : 4  
 piled to the end of 1891, with annual, seasonal, and  
 other charts. 80 pp., i fig.  
 These charts are 23 in number, 19 by 24 inches, bound separately  
 and designated as Bulletin C, atlas.  
 Cipher code for wind signal orders, amending the instruc- AG. 493 : 5  
 tions to special display men. Nov., 1892. 10 pp.  
 Circular A. Instructions for obtaining and transcribing AG. 493 : 6  
 records from recording instruments. 1892. 12 pp. Rev.  
 ed., Dec., 1894.  
*Same*, B. Directions for use of maximum and minimum AG. 493 : 7  
 thermometers. May, 1892. 10 pp.  
*Same*, C. Instructions for use of the rain gauge. 8 pp.. AG. 493 : 8  
*Same*, D. Marvin, C. F. Anemometry. A circular of AG. 493 : 9  
 general information respecting the theory and operation  
 of typical instruments for indicating, measuring, and  
 automatically recording wind movement and direction.  
 40 pp., xviii figs.

- Circular E. Instructions for using Marvin's weighing AG. 493 : 10  
rain and snow gauge. 1892. 16 pp., iii figs.
- Same*, F. Marvin, C. F. Barometers and the measure- AG. 493 : 11  
ment of atmospheric pressure, etc. Oct., 1894. 74 pp.  
xxiv figs.
- Same*, G. Marvin, C. F., and Whitney, M. Instructions AG. 493 : 12  
for the use of maximum and minimum soil thermome-  
ters. 8 pp.
- Same*, H. Marvin, C. F. Radiation thermometers. 10 pp. AG. 493 : 13
- Circular of information relating to the display of wind AG. 493 : 14  
signals on the Great Lakes. Apr., 1895. 23 pp., i pl.
- Details of precipitation (rain and melted snow) at stations AG. 493 : 15  
in Nebraska and South Dakota. Mar. 6, 1894. 33 pp.
- Also in 53 Cong., 2d sess., S. mis. doc. No. 113.
- Finley, J. P. Certain climatic conditions of the two Da- AG. 493 : 16  
kotas. June, 1893. Ill., 206 pp., xcv charts. 4°. cl.
- Also in 52 Cong., 1st sess., S. ex. doc. No. 157.
- Harrington, M. W. Protection of fruits, vegetables, and AG. 493 : 17  
other food products from injury by heat or cold during  
transportation. Aug., 1894. 7 pp.
- Same*. Special report of the Chief of the Weather Bureau. AG. 493 : 18  
(Summary of the operations of the Bureau during the  
three months immediately following its transfer to the  
Department of Agriculture, i. e., July 1 to Oct. 1, 1891.)  
26 pp.
- Same*. Report of the Chief of the Weather Bureau, AG. 493 : 19  
1891-92. (Devoted chiefly to tables recording climato-  
logical data for the years 1891-92.) Dec., 1893. 528  
pp., iv pls., xxiii figs. 4°. cl.
- Pts. 1 to 6 have been printed separately as follows:
- Pt. 1.—Introduction, list of observing stations, description of  
instruments, and instrumental corrections. Dec., 1893. Pp. 7-48,  
ii figs.
- Pt. 2.—Hourly changes of atmospheric pressure, temperature,  
and wind from the records of self-recording instruments at  
twenty-eight stations. Dec., 1893. Pp. 49-139.
- Pt. 3.—Monthly and annual meteorological summaries for  
Weather Bureau stations. Dec., 1893. Pp. 141-303.
- Pt. 4.—Monthly and annual mean temperature and annual ex-  
tremes of temperature, etc. Dec., 1893. Pp. 305-365.
- Pt. 5.—Monthly and annual precipitation. Dec., 1893. Pp.  
367-433.
- Pt. 6.—Miscellaneous meteorological tables and reports. Dec.,  
1893. Pp. 435-528, iv pls., xxii figs.
- Hinrichs, Dr. G. Rainfall laws, deduced from twenty AG. 493 : 20  
years of observation. Dec., 1893. 94 pp., vi figs.
- Instructions for using glass electrical sunshine recorder, AG. 493 : 21  
pattern 1893. 6 by 9½ inches. 4 pp., ii figs.
- Same*, to special river observers. Aug., 1892. 50 pp., vii AG. 493 : 22  
figs.
- Same*, to observers, and code for enciphering reports at AG. 493 : 23  
cotton region and sugar and rice stations of the Weather  
Bureau. 1892. Pp. 1-27, and 3-16, x figs.
- Same*, to operators on United States seacoast telegraph AG. 493 : 23  
lines. 1892. 24 pp.
- Same*, to special display men of the Weather Bureau. 5 by AG. 493 : 24  
7½ inches. Feb., 1892. 13 pp.



- Instructions to special rainfall observers of the Weather AG. 493 : 25  
Bureau. Nov., 1892. 22 pp.
- International meteorological symbols. (Circular of Weather AG. 493 : 26  
Bureau.) 5 pp.
- McAdie, A. Protection from lightning. (Circular of AG. 493 : 27  
Weather Bureau.) 20 pp., xi pls.
- Report of wrecks which occurred on the Great Lakes from AG. 493 : 28  
Dec. 17, 1885, to Nov. 15, 1893. 22 pp.
- Russell, T. Daily river stages at river-gauge stations on AG. 493 : 29  
the principal rivers of the United States, for the years  
1890-1892.  $8\frac{1}{2}$  by 10 inches. May, 1893. lxvii. 439  
pp. xii charts.
- Same.* Description of river gauges, bench marks, danger AG. 493 : 30  
lines, low-water and flood marks at United States  
Weather Bureau river stations. (Pp. lxvii reprinted  
from above.)
- Same.* Instructions for voluntary observers. 100 pp., AG. 493 : 31  
xxi figs.
- Same.* Tables for obtaining the temperature of the dew- AG. 493 : 32  
point, relative humidity, and vapor pressure. (Reprint  
of pp. 69-92 of the above.)

## MAPS AND CHARTS.

- Current chart of the Great Lakes. 24 by 33 inches..... AG. 494 : 1  
Daily Bulletin..... AG. 494 : 2

Issued at Weather Bureau stations outside of Washington, D. C., showing the weather conditions at selected stations of the Bureau, the data being telegraphed to the various observers, who enter the same and cause the bulletins to be displayed, as in the case of the weather maps. Size, 1892, 6 by 14 inches; 1893, 8 by 10 inches, and 10 by 16 inches.

- Lake Storm Bulletin..... AG. 494 : 3

Issued whenever severe storms pass across the region of the Great Lakes during the season of navigation, and furnished for distribution to observers of all Weather Bureau stations on the lakes; contains meteorological data.

- No. 1. Storm of Oct. 4-7, 1893. 19 by 20 inches.  
No. 2. Storm of Oct. 5-14, 1893. 19 by 20 inches.  
No. 3. Storm of Nov. 16-17, 1893. 19 by 24 inches.  
No. 4. Storm of Nov. 20-23, 1893. 19 by 24 inches.  
No. 5. Storm of Dec. 14-16, 1893. 19 by 24 inches.

- Marvin, C. F. The development and movement of cyclones, AG. 494 : 4  
as shown in the morning and evening weather maps.  
April 2-6, 1892.  $11\frac{1}{2}$  by 14 inches.

- Semi-daily weather map..... AG. 494 : 5

Shows weather conditions throughout the United States, and gives forecast of probable changes.

- Snow Chart..... AG. 494 : 6

Issued weekly during season, and shows depth of snow on ground, and ice in rivers and harbors. Size 19 by  $23\frac{1}{2}$  inches.

- Weather chart of the Great Lakes, showing the location of AG. 494 : 7  
wrecks occasioned through foundering, gales of wind,  
fogs, and general stormy weather conditions from 1886  
to 1893. 1 sheet.

Weather Crop Bulletin..... AG. 494 : 8

A brief summary of the condition of weather and crops of the United States, showing by maps and tables the departures from normal temperature and rainfall for the period covered by the bulletin. Issued weekly from Mar. to Oct., inclusive, a separate monthly edition being continued throughout the year, and all issues being numbered consecutively in the order of their appearance. Uniform with weather map in size and form.

1891. Nos. 22-39, inclusive.

1892. Nos. 1-33, inclusive.

1893. Nos. 1-32, inclusive.

1894. Nos. 1-32, inclusive.

1895. Nos. 1-15. (June 25.)

Weather Map..... AG. 494 : 9

Issued twice daily, showing weather conditions throughout the United States and furnishing forecasts of probable changes.

Edition published at Washington, D. C., 19 by 24 inches. Editions published at stations outside of Washington, 13½ by 22½ inches.

Weather map for the use of schools. 1 large sheet..... AG. 494 : 10

Wreck and casualty chart of the Great Lakes, 1894. 26 by 36 inches. Feb., 1895. AG. 494 : 11

AGRICULTURAL SOILS.

No. 1. Announcement of the functions of the division. AG. 495 : 1  
Mar., 1894. 3 pp.

No. 2. Whitney, M. Instructions for taking samples of soil for moisture determinations. June, 1894. 3 pp. AG. 495 : 2

DIVISION OF CLIMATOLOGY.

*Circulars.*

No. 1. Circular letter asking cooperation of physicians, boards of health, etc. Jan. 2, 1895. Note-size folio. AG. 496 : 1

No. 2. Circular letter to officials of United States weather bureaus on methods of keeping statistics, etc. Jan. 2, 1895. Note-size folio. AG. 496 : 2

No. 3. Circular letter to publishers of periodicals, newspapers, etc., requesting publication of notice of purpose of Division of Sanitary Climatology. Jan. 2, 1895. Note-size folio. AG. 496 : 3

No. 4. Information relative to the investigation of the influence of climate on health. 7 pp. Apr., 1895. AG. 496 : 4